

Schema documentation for lter-personnelDB.xsd

february 25, 2011

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Schema(s)

Main schema lter-personnelDB.xsd

Annotations	This schema defines a data exchange standard for the LTER personnel database developed by the LTER Web Services Working Group. Each personnel document must include one or more person elements describing the identifying information, roles and contact information for an individual associated with the LTER Network. Working group participants include: Mason Kortz (chair; CCE/PAL), Sven Bohm (KBS), M. Gastil Buhl (MCR), Corinna Gries (NTL), Wade Sheldon (GCE) and Jonathan Walsh (BES). Copyright 2011 Long Term Ecological Research Network.
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Properties	attribute form default: unqualified
	element form default: unqualified

Element(s)

Element personnel

Annotations	This is the root element of an lter-personnelDB document.
Diagram	<p>The diagram illustrates the XML structure. The root element 'personnel' contains a sequence of 'person' elements. The 'person' element is annotated with '1..∞', indicating one or more occurrences. A callout for 'personnel' states: 'This is the root element of an lter-personnelDB document.' A callout for 'person' states: 'The person element contains the database identifier, identity information, roles and contact information for one or...'.</p>
Properties	content: complex
Model	person+
Children	person
Instance	<pre><personnel> <person changeDate="">{1,unbounded}</person> </personnel></pre>
Source	<pre><xs:element name="personnel"> <xs:annotation> <xs:documentation>This is the root element of an lter-personnelDB document.</ </xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="person" minOccurs="1" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The person element contains the database identifier, identity information, roles and contact information for one or more individuals in the LTER Network. At least one person element is required.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="personID" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The personID element contains an unsigned integer representing the database identifier for a personnel record in the LTER Database. This is a required element. When preparing data for submission specify a value of 0 to indicate a new entry or a non-zero entry to indicate an existing entry to update.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="identity" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The identity element includes the primary identification information for an individual, including name, title and primary email address. Only 1 set of identity information is permitted per person element.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="prefix" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The prefix element contains a name prefix or salutation (e.g. Dr., Mr. or Ms.). This element is optional.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="firstName" type="textField" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The firstName element contains the first or given name of the person. This element is required.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="middleName" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The middleName element contains the middle name of the person. This element is optional.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>

```

</xs:element>
<xs:element name="lastName" type="textField" minOccurs="1"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The lastName element contains the last or surname
of the person. This element is required.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="suffix" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The suffix element contains the name suffix of the
person (e.g. Jr., III). This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="preferredName" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The preferredName element contains the nickname
or other preferred variation of the person's full name. This element is optional.</
xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="title" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The title element contains the institutional
or organizational title of the person (e.g. Assistant Professor, Institute of Applied
Ecology Director). This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="primaryEmail" type="emailAddress" minOccurs="1"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The primaryEmail element contains the primary
contact email for use in LTER Network official communication. The LTER email alias will
reference this address. This is a required element.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="optOut" type="xs:boolean" minOccurs="1" maxOccurs="1"
default="0">
  <xs:annotation>
    <xs:documentation>The optOut element contains a boolean value
specifying whether contact information other than name should be omitted from the
personnel directory list on the LTER web site. Acceptable values are true, false, 1 (i.e.
true) and 0 (i.e. false). This is a required element with a default value of 0 (false).</
xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="nameAlias" type="textField" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The nameAlias element contains alternative full
names under which the person is or has been known for use in directory searches (e.g.
name prior to marriage, divorce or name change). This is an optional element and it can
be repeated as necessary.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="roleList" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The roleList element contains descriptions of LTER
Network roles held by the person at one or more LTER sites. This element is optional, but
it cannot be repeated more than once and if used then it must include one or more role
elements.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="role" minOccurs="1" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>The role element contains elements describing a
LTER Network role held by the person. This is a required element that can be repeated as
many times as appropriate. Note that only one active role of type nsf should be assigned
per site for each person element.</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="roleID" minOccurs="1" maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The roleID element contains an unsigned
integer representing the personnel database ID of the role record for a person. This is a
required element that cannot be repeated. For new roles to be added to the database, use
a roleID of 0.</xs:documentation>
              </xs:annotation>

```

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</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:integer">
    <xs:minInclusive value="0"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="roleType" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The roleType element contains a role type
from a controlled vocabulary of NSF roles or local roles defined in the LTER Personnel
Database. This is a required element that cannot be repeated.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="textField">
        <xs:attribute name="type" use="required">
          <xs:annotation>
            <xs:documentation>The type attribute specifies
the type or scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles
and "local" for site-defined and network-wide roles in the Personnel Database.</
xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
<xs:element name="siteAcronym" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The siteAcronym element contains a 3-letter
acronym specifying the LTER site at which the person holds this role. For network-wide
roles not associated with a specific site, use the siteAcronym NWK. This is a required
element that cannot be repeated.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:length value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="beginDate" type="xs:date" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The beginDate element contains the beginning
date of the person's participation in the role. This element is optional but highly
recommended when known.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="endDate" type="xs:date" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The endDate element contains the ending
date of the person's participation in the role. This element is optional but highly
recommended when known, and should agree with the value of the isActive element value
(i.e. endDate in the past when isActive = false, endDate empty or in the future when
isActive = true).</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="isActive" type="xs:boolean" minOccurs="1"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The isActive element contains a boolean
value indicating whether or not the person is currently active in the role. Possible
values are true, false, 1 (i.e. true) or 0 (i.e. false). This element is required, and
note that only one combination of roleType and siteAcronym should have isActive of true
for the same person. Note that this element takes precedence over endDate for determining
status of the role if they disagree.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="contactInfoList" minOccurs="0" maxOccurs="1">

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<xs:annotation>
  <xs:documentation>The contactInfoList element contains one or more sets of
  contact information for the person. This element is optional, but if included cannot be
  repeated and must include at least one contactInfo element.</xs:documentation>
</xs:annotation>
<xs:complexType>
  <xs:sequence>
    <xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The contactInfo element contains one set of
        contact information for the person, including a descriptive label element and isPrimary
        boolean element specifying which set of contact information should be used for official
        LTER communication.</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="contactInfoID">
            <xs:annotation>
              <xs:documentation>The contactInfoID element contains an
              unsigned integer representing the LTER Personnel Database ID of the contact information
              record. This is a required element. For new sets of contact information, specify 0 for
              contactInfoID.</xs:documentation>
            </xs:annotation>
            <xs:simpleType>
              <xs:restriction base="xs:integer">
                <xs:minInclusive value="0"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
          <xs:element name="label" type="textField" minOccurs="1"
maxOccurs="1">
            <xs:annotation>
              <xs:documentation>The label element contains a descriptive
              text label describing the set of contact information for the person (e.g. Primary
              institutional contact information, Field station address during the summer). This label
              is intended to convey information to end-users of the LTER directory regarding which
              contact information is appropriate to use under different circumstances. This is a
              required element.</xs:documentation>
            </xs:annotation>
            </xs:element>
            <xs:element name="isPrimary" type="xs:boolean" minOccurs="1"
maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The isPrimary element contains a boolean
                value specifying whether the contact information represents the primary address of the
                person for official LTER communication. Possible values are true, false, 1 (i.e. true)
                and 0 (i.e. false). This is a required element.</xs:documentation>
              </xs:annotation>
              </xs:element>
              <xs:element name="beginDate" type="xs:date" minOccurs="0"
maxOccurs="1">
                <xs:annotation>
                  <xs:documentation>The beginDate element contains the beginning
                  date for the respective contact information. This element is optional but highly
                  recommended when known.</xs:documentation>
                </xs:annotation>
                </xs:element>
                <xs:element name="endDate" type="xs:date" minOccurs="0"
maxOccurs="1">
                  <xs:annotation>
                    <xs:documentation>The endDate element contains the ending date
                    for the respective contact information. This element is optional but highly recommended
                    when known, and should agree with the value of the isActive element value (i.e. endDate
                    in the past when isActive = false, endDate empty or in the future when isActive =
                    true).</xs:documentation>
                  </xs:annotation>
                  </xs:element>
                  <xs:element name="isActive" type="xs:boolean" minOccurs="1"
maxOccurs="1">
                    <xs:annotation>
                      <xs:documentation>The isActive element contains a boolean
                      value indicating whether or not the contact information is currently active. Possible
                      values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</
                      xs:documentation>
                    </xs:annotation>
                    </xs:element>
                    <xs:element name="address" type="textField" minOccurs="0"
maxOccurs="unbounded">
                      <xs:annotation>
                        <xs:documentation>The address element contains the delivery
                        address for the person (e.g. street address). This element is optional and can be
                        repeated for multiple address lines.</xs:documentation>
                      </xs:annotation>

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</xs:element>
<xs:element name="institution" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The institution element contains the name
of the institution or organization at which the person is located. This element is
optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="city" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The city element contains the name of the
city in which the person resides. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="administrativeArea" type="textField"
minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The administrativeArea contains the
name of the state, province or other administrative area. This element is optional.</
xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="postalCode" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The postalCode element contains the Zip code
or other postal code for the address. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="country" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The country element contains the name of the
country in which the person resides. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="phone" type="textField" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The phone element contains a voice phone or
pager number at which the person can be reached. This is an optional element that can be
repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="fax" type="textField" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The fax contains the number of a fax (i.e.
facsimile) machine that can be used to send documents to the person. This is an optional
element that can be repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="email" type="emailAddress" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The email element contains additional
electronic mail addresses that can be used to contact the perosn. This is an optional
element that can be repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="changeDate" type="xs:date">
  <xs:annotation>
    <xs:documentation>The changeDate attribute lists the date any content in the
personnel record was last modified. This is a read-only attribute that will be ignored
when submitting or updating personnel information in the database.</xs:documentation>
  </xs:annotation>
</xs:attribute>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element `personnel` / `person`

Annotations	The person element contains the database identifier, identity information, roles and contact information for one or more individuals in the LTER Network. At least one person element is required.					
Diagram	<p>The diagram illustrates the structure of the <code>person</code> element. It is a container for several sub-elements and one attribute:</p> <ul style="list-style-type: none">changeDate (Attribute, Type: <code>xs:date</code>): The changeDate attribute lists the date any content in the personnel record was last modified. This is a read-only attribute.personID (Element, Type: <code>restriction of 'xs:integer'</code>): The personID element contains an unsigned integer representing the database identifier for a personnel record in the...identity (Element): The identity element includes the primary identification information for an individual, including name, title and...roleList (Element): The roleList element contains descriptions of LTER Network roles held by the person at one or more LTER sites. This...contactInfoList (Element): The contactInfoList element contains one or more sets of contact information for the person. This element is optional,... <p>The <code>person</code> element itself is described as: The person element contains the database identifier, identity information, roles and contact information for one or...</p>					
Properties	content:		complex			
	minOccurs:		1			
	maxOccurs:		unbounded			
Model	personID , identity{0,1} , roleList{0,1} , contactInfoList{0,1}					
Children	contactInfoList, identity, personID, roleList					
Instance	<pre><person changeDate=" "> <personID>{1,1}</personID> <identity>{0,1}</identity> <roleList>{0,1}</roleList> <contactInfoList>{0,1}</contactInfoList> </person></pre>					
Attributes	QName	Type	Fixed	Default	Use	
	changeDate	xs:date			optional	
		The changeDate attribute lists the date any content in the personnel record was last modified. This is a read-only attribute that will be ignored when submitting or updating personnel information in the database.				
Source	<pre><xs:element name="person" minOccurs="1" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The person element contains the database identifier, identity information, roles and contact information for one or more individuals in the LTER Network. At least one person element is required.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="personID" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The personID element contains an unsigned integer representing the database identifier for a personnel record in the LTER Database. This is a required element. When preparing data for submission specify a value of 0 to indicate a new entry or a non-zero entry to indicate an existing entry to update.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="identity" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The identity element includes the primary identification information for an individual, including name, title and primary email address. Only 1 set of identity information is permitted per person element.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="roleList" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The roleList element contains descriptions of LTER Network roles held by the person at one or more LTER sites. This...</xs:documentation> </xs:annotation> </xs:element> <xs:element name="contactInfoList" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The contactInfoList element contains one or more sets of contact information for the person. This element is optional,....</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>					

```

</xs:annotation>
<xs:complexType>
  <xs:sequence>
    <xs:element name="prefix" type="textField" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The prefix element contains a name prefix or salutation
(e.g. Dr., Mr. or Ms.). This element is optional.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="firstName" type="textField" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The firstName element contains the first or given name
of the person. This element is required.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="middleName" type="textField" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The middleName element contains the middle name of the
person. This element is optional.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="lastName" type="textField" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The lastName element contains the last or surname of the
person. This element is required.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="suffix" type="textField" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The suffix element contains the name suffix of the
person (e.g. Jr., III). This element is optional.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="preferredName" type="textField" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The preferredName element contains the nickname
or other preferred variation of the person's full name. This element is optional.</
xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="title" type="textField" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The title element contains the institutional or
organizational title of the person (e.g. Assistant Professor, Institute of Applied
Ecology Director). This element is optional.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="primaryEmail" type="emailAddress" minOccurs="1"
maxOccurs="1">
      <xs:annotation>
        <xs:documentation>The primaryEmail element contains the primary contact
email for use in LTER Network official communication. The LTER email alias will reference
this address. This is a required element.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="optOut" type="xs:boolean" minOccurs="1" maxOccurs="1"
default="0">
      <xs:annotation>
        <xs:documentation>The optOut element contains a boolean value specifying
whether contact information other than name should be omitted from the personnel
directory list on the LTER web site. Acceptable values are true, false, 1 (i.e. true)
and 0 (i.e. false). This is a required element with a default value of 0 (false).</
xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="nameAlias" type="textField" minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The nameAlias element contains alternative full names
under which the person is or has been known for use in directory searches (e.g. name
prior to marriage, divorce or name change). This is an optional element and it can be
repeated as necessary.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="roleList" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The roleList element contains descriptions of LTER Network
roles held by the person at one or more LTER sites. This element is optional, but it
cannot be repeated more than once and if used then it must include one or more role
elements.</xs:documentation>
  </xs:annotation>

```



```

</xs:annotation>
<xs:complexType>
  <xs:sequence>
    <xs:element name="role" minOccurs="1" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The role element contains elements describing a LTER
Network role held by the person. This is a required element that can be repeated as many
times as appropriate. Note that only one active role of type nsf should be assigned per
site for each person element.</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="roleID" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation>The roleID element contains an unsigned integer
representing the personnel database ID of the role record for a person. This is a
required element that cannot be repeated. For new roles to be added to the database, use
a roleID of 0.</xs:documentation>
            </xs:annotation>
            <xs:simpleType>
              <xs:restriction base="xs:integer">
                <xs:minInclusive value="0"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
          <xs:element name="roleType" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation>The roleType element contains a role type from
a controlled vocabulary of NSF roles or local roles defined in the LTER Personnel
Database. This is a required element that cannot be repeated.</xs:documentation>
            </xs:annotation>
            <xs:complexType>
              <xs:simpleContent>
                <xs:extension base="textField">
                  <xs:attribute name="type" use="required">
                    <xs:annotation>
                      <xs:documentation>The type attribute specifies the type or
scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for
site-defined and network-wide roles in the Personnel Database.</xs:documentation>
                    </xs:annotation>
                    <xs:simpleType>
                      <xs:restriction base="xs:string">
                        <xs:enumeration value="nsf"/>
                        <xs:enumeration value="local"/>
                      </xs:restriction>
                    </xs:simpleType>
                  </xs:attribute>
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
          <xs:element name="siteAcronym" minOccurs="1" maxOccurs="1">
            <xs:annotation>
              <xs:documentation>The siteAcronym element contains a 3-letter
acronym specifying the LTER site at which the person holds this role. For network-wide
roles not associated with a specific site, use the siteAcronym NWK. This is a required
element that cannot be repeated.</xs:documentation>
            </xs:annotation>
            <xs:simpleType>
              <xs:restriction base="xs:string">
                <xs:length value="3"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
          <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation>The beginDate element contains the beginning
date of the person's participation in the role. This element is optional but highly
recommended when known.</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
            <xs:annotation>
              <xs:documentation>The endDate element contains the ending date of
the person's participation in the role. This element is optional but highly recommended
when known, and should agree with the value of the isActive element value (i.e. endDate
in the past when isActive = false, endDate empty or in the future when isActive =
true).</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="isActive" type="xs:boolean" minOccurs="1"
maxOccurs="1">
            <xs:annotation>

```

```

        <xs:documentation>The isActive element contains a boolean value
        indicating whether or not the person is currently active in the role. Possible values
        are true, false, 1 (i.e. true) or 0 (i.e. false). This element is required, and note that
        only one combination of roleType and siteAcronym should have isActive of true for the
        same person. Note that this element takes precedence over endDate for determining status
        of the role if they disagree.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="contactInfoList" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The contactInfoList element contains one or more sets of
    contact information for the person. This element is optional, but if included cannot be
    repeated and must include at least one contactInfo element.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>The contactInfo element contains one set of contact
          information for the person, including a descriptive label element and isPrimary boolean
          element specifying which set of contact information should be used for official LTER
          communication.</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="contactInfoID">
              <xs:annotation>
                <xs:documentation>The contactInfoID element contains an unsigned
                integer representing the LTER Personnel Database ID of the contact information
                record. This is a required element. For new sets of contact information, specify 0 for
                contactInfoID.</xs:documentation>
              </xs:annotation>
              <xs:simpleType>
                <xs:restriction base="xs:integer">
                  <xs:minInclusive value="0"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="label" type="text" minOccurs="1" maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The label element contains a descriptive
                text label describing the set of contact information for the person (e.g. Primary
                institutional contact information, Field station address during the summer). This label
                is intended to convey information to end-users of the LTER directory regarding which
                contact information is appropriate to use under different circumstances. This is a
                required element.</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="isPrimary" type="xs:boolean" minOccurs="1"
maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The isPrimary element contains a boolean value
                specifying whether the contact information represents the primary address of the person
                for official LTER communication. Possible values are true, false, 1 (i.e. true) and 0
                (i.e. false). This is a required element.</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The beginDate element contains the beginning date
                for the respective contact information. This element is optional but highly recommended
                when known.</xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The endDate element contains the ending date for
                the respective contact information. This element is optional but highly recommended when
                known, and should agree with the value of the isActive element value (i.e. endDate in
                the past when isActive = false, endDate empty or in the future when isActive = true).</
xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="isActive" type="xs:boolean" minOccurs="1"
maxOccurs="1">
              <xs:annotation>

```

```

        <xs:documentation>The isActive element contains a boolean value
        indicating whether or not the contact information is currently active. Possible values
        are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="address" type="textField" minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>The address element contains the delivery address
          for the person (e.g. street address). This element is optional and can be repeated for
          multiple address lines.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="institution" type="textField" minOccurs="0"
maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The institution element contains the name of the
          institution or organization at which the person is located. This element is optional.</
xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="city" type="textField" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The city element contains the name of the city in
          which the person resides. This element is optional.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="administrativeArea" type="textField" minOccurs="0"
maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The administrativeArea contains the name of the
          state, province or other administrative area. This element is optional.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="postalCode" type="textField" minOccurs="0"
maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The postalCode element contains the Zip code or
          other postal code for the address. This element is optional.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="country" type="textField" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The country element contains the name of the
          country in which the person resides. This element is optional.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="phone" type="textField" minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>The phone element contains a voice phone or
          pager number at which the person can be reached. This is an optional element that can be
          repeated as many times as appropriate.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="fax" type="textField" minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>The fax contains the number of a fax (i.e.
          facsimile) machine that can be used to send documents to the person. This is an optional
          element that can be repeated as many times as appropriate.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="email" type="emailAddress" minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>The email element contains additional electronic
          mail addresses that can be used to contact the perosn. This is an optional element that
          can be repeated as many times as appropriate.</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:sequence>
<xs:attribute name="changeDate" type="xs:date">
  <xs:annotation>

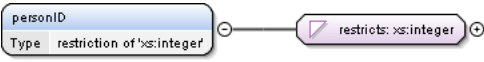
```

```

<xs:documentation>The changeDate attribute lists the date any content in the
personnel record was last modified. This is a read-only attribute that will be ignored
when submitting or updating personnel information in the database.</xs:documentation>
</xs:annotation>
</xs:attribute>
</xs:complexType>
</xs:element>

```

Element personnel / person / personID

Annotations	The personID element contains an unsigned integer representing the database identifier for a personnel record in the LTER Database. This is a required element. When preparing data for submission specify a value of 0 to indicate a new entry or a non-zero entry to indicate an existing entry to update.						
Diagram	 <p>The personID element contains an unsigned integer representing the database identifier for a personnel record in the...</p>						
Type	restriction of xs:integer						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						
Source	<pre> <xs:element name="personID" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The personID element contains an unsigned integer representing the database identifier for a personnel record in the LTER Database. This is a required element. When preparing data for submission specify a value of 0 to indicate a new entry or a non-zero entry to indicate an existing entry to update.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>						

Element personnel / person / identity

Annotations	The identity element includes the primary identification information for an individual, including name, title and primary email address. Only 1 set of identity information is permitted per person element.
-------------	--

Diagram	<p>The identity element includes the primary identification information for an individual, including name, title and...</p> <p>prefix Type: text The prefix element contains a name prefix or salutation (e.g. Dr., Mr. or Ms.). This element is optional.</p> <p>firstName Type: text The firstName element contains the first or given name of the person. This element is required.</p> <p>middleName Type: text The middleName element contains the middle name of the person. This element is optional.</p> <p>lastName Type: text The lastName element contains the last or surname of the person. This element is required.</p> <p>suffix Type: text The suffix element contains the name suffix of the person (e.g. Jr., III). This element is optional.</p> <p>preferredName Type: text The preferredName element contains the nickname or other preferred variation of the person's full name. This element is...</p> <p>title Type: text The title element contains the institutional or organizational title of the person (e.g. Assistant Professor, Institute...</p> <p>primaryEmail Type: emailAddress The primaryEmail element contains the primary contact email for use in LTER Network official communication. The LTER...</p> <p>optOut Type: xs:boolean Default: 0 The optOut element contains a boolean value specifying whether contact information other than name should be omitted...</p> <p>nameAlias Type: text 0..∞ The nameAlias element contains alternative full names under which the person is or has been known for use in directory...</p>						
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	1
content:	complex						
minOccurs:	0						
maxOccurs:	1						
Model	prefix{0,1} , firstName , middleName{0,1} , lastName , suffix{0,1} , preferredName{0,1} , title{0,1} , primaryEmail , optOut , nameAlias*						
Children	firstName, lastName, middleName, nameAlias, optOut, preferredName, prefix, primaryEmail, suffix, title						
Instance	<pre> <identity> <prefix>{0,1}</prefix> <firstName>{1,1}</firstName> <middleName>{0,1}</middleName> <lastName>{1,1}</lastName> <suffix>{0,1}</suffix> <preferredName>{0,1}</preferredName> <title>{0,1}</title> <primaryEmail>{1,1}</primaryEmail> <optOut>{1,1}</optOut> <nameAlias>{0,unbounded}</nameAlias> </identity> </pre>						
Source	<pre> <xs:element name="identity" minOccurs="0" maxOccurs="1"> <xs:annotation> </pre>						

```

<xs:documentation>The identity element includes the primary identification information
for an individual, including name, title and primary email address. Only 1 set of
identity information is permitted per person element.</xs:documentation>
</xs:annotation>
<xs:complexType>
<xs:sequence>
  <xs:element name="prefix" type="textField" minOccurs="0" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The prefix element contains a name prefix or salutation (e.g.
Dr., Mr. or Ms.). This element is optional.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="firstName" type="textField" minOccurs="1" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The firstName element contains the first or given name of the
person. This element is required.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="middleName" type="textField" minOccurs="0" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The middleName element contains the middle name of the person.
This element is optional.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="lastName" type="textField" minOccurs="1" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The lastName element contains the last or surname of the
person. This element is required.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="suffix" type="textField" minOccurs="0" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The suffix element contains the name suffix of the person
(e.g. Jr., III). This element is optional.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="preferredName" type="textField" minOccurs="0" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The preferredName element contains the nickname or
other preferred variation of the person's full name. This element is optional.</
xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="title" type="textField" minOccurs="0" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The title element contains the institutional or organizational
title of the person (e.g. Assistant Professor, Institute of Applied Ecology Director).
This element is optional.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="primaryEmail" type="emailAddress" minOccurs="1" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The primaryEmail element contains the primary contact email
for use in LTER Network official communication. The LTER email alias will reference this
address. This is a required element.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="optOut" type="xs:boolean" minOccurs="1" maxOccurs="1" default="0">
    <xs:annotation>
      <xs:documentation>The optOut element contains a boolean value specifying whether
contact information other than name should be omitted from the personnel directory
list on the LTER web site. Acceptable values are true, false, 1 (i.e. true) and 0 (i.e.
false). This is a required element with a default value of 0 (false).</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="nameAlias" type="textField" minOccurs="0" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>The nameAlias element contains alternative full names under
which the person is or has been known for use in directory searches (e.g. name prior to
marriage, divorce or name change). This is an optional element and it can be repeated as
necessary.</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element personnel / person / identity / prefix

Annotations	The prefix element contains a name prefix or salutation (e.g. Dr., Mr. or Ms.). This element is optional.
-------------	---

Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="prefix" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The prefix element contains a name prefix or salutation (e.g. Dr., Mr. or Ms.). This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / identity / firstName`

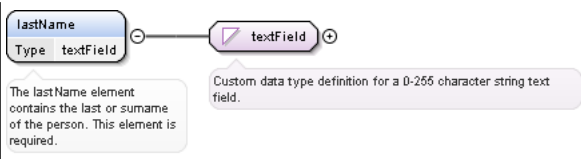
Annotations	The firstName element contains the first or given name of the person. This element is required.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						
Source	<pre><xs:element name="firstName" type="textField" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The firstName element contains the first or given name of the person. This element is required.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / identity / middleName`


Annotations	The middleName element contains the middle name of the person. This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="middleName" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The middleName element contains the middle name of the person. This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / identity / lastName`


Annotations	The lastName element contains the last or surname of the person. This element is required.
-------------	--

Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						
Source	<pre><xs:element name="lastName" type="textField" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The lastName element contains the last or surname of the person. This element is required.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / identity / suffix`

Annotations	The suffix element contains the name suffix of the person (e.g. Jr., III). This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="suffix" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The suffix element contains the name suffix of the person (e.g. Jr., III). This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / identity / preferredName`

Annotations	The preferredName element contains the nickname or other preferred variation of the person's full name. This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="preferredName" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The preferredName element contains the nickname or other preferred variation of the person's full name. This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / identity / title`

Annotations	The title element contains the institutional or organizational title of the person (e.g. Assistant Professor, Institute of Applied Ecology Director). This element is optional.
-------------	---

Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="title" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The title element contains the institutional or organizational title of the person (e.g. Assistant Professor, Institute of Applied Ecology Director). This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element personnel / person / identity / primaryEmail

Annotations	The primaryEmail element contains the primary contact email for use in LTER Network official communication. The LTER email alias will reference this address. This is a required element.						
Diagram							
Type	emailAddress						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						
Source	<pre><xs:element name="primaryEmail" type="emailAddress" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The primaryEmail element contains the primary contact email for use in LTER Network official communication. The LTER email alias will reference this address. This is a required element.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element personnel / person / identity / optOut

Annotations	The optOut element contains a boolean value specifying whether contact information other than name should be omitted from the personnel directory list on the LTER web site. Acceptable values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element with a default value of 0 (false).								
Diagram									
Type	xs:boolean								
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> <tr> <td>default:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1	default:	0
content:	simple								
minOccurs:	1								
maxOccurs:	1								
default:	0								
Source	<pre><xs:element name="optOut" type="xs:boolean" minOccurs="1" maxOccurs="1" default="0"> <xs:annotation> <xs:documentation>The optOut element contains a boolean value specifying whether contact information other than name should be omitted from the personnel directory list on the LTER web site. Acceptable values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element with a default value of 0 (false).</xs:documentation> </xs:annotation> </xs:element></pre>								

```

</xs:annotation>
</xs:element>

```

Element `personnel / person / identity / nameAlias`

Annotations	The nameAlias element contains alternative full names under which the person is or has been known for use in directory searches (e.g. name prior to marriage, divorce or name change). This is an optional element and it can be repeated as necessary.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	unbounded
content:	simple						
minOccurs:	0						
maxOccurs:	unbounded						
Source	<pre> <xs:element name="nameAlias" type="textField" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The nameAlias element contains alternative full names under which the person is or has been known for use in directory searches (e.g. name prior to marriage, divorce or name change). This is an optional element and it can be repeated as necessary.</xs:documentation> </xs:annotation> </xs:element> </pre>						

Element `personnel / person / roleList`

Annotations	The roleList element contains descriptions of LTER Network roles held by the person at one or more LTER sites. This element is optional, but it cannot be repeated more than once and if used then it must include one or more role elements.						
Diagram							
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	1
content:	complex						
minOccurs:	0						
maxOccurs:	1						
Model	role+						
Children	role						
Instance	<pre> <roleList> <role>{1,unbounded}</role> </roleList> </pre>						
Source	<pre> <xs:element name="roleList" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The roleList element contains descriptions of LTER Network roles held by the person at one or more LTER sites. This element is optional, but it cannot be repeated more than once and if used then it must include one or more role elements.</ xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="role" minOccurs="1" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The role element contains elements describing a LTER Network role held by the person. This is a required element that can be repeated as many times as appropriate. Note that only one active role of type nsf should be assigned per site for each person element.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="roleID" minOccurs="1" maxOccurs="1"> <xs:annotation> </pre>						

```

    <xs:documentation>The roleID element contains an unsigned integer
    representing the personnel database ID of the role record for a person. This is a
    required element that cannot be repeated. For new roles to be added to the database, use
    a roleID of 0.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:integer">
        <xs:minInclusive value="0"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="roleType" minOccurs="1" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The roleType element contains a role type from a
      controlled vocabulary of NSF roles or local roles defined in the LTER Personnel
      Database. This is a required element that cannot be repeated.</xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:simpleContent>
        <xs:extension base="textField">
          <xs:attribute name="type" use="required">
            <xs:annotation>
              <xs:documentation>The type attribute specifies the type or scope
              of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-
              defined and network-wide roles in the Personnel Database.</xs:documentation>
            </xs:annotation>
            <xs:simpleType>
              <xs:restriction base="xs:string">
                <xs:enumeration value="nsf"/>
                <xs:enumeration value="local"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:attribute>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
  </xs:element>
  <xs:element name="siteAcronym" minOccurs="1" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The siteAcronym element contains a 3-letter acronym
      specifying the LTER site at which the person holds this role. For network-wide roles not
      associated with a specific site, use the siteAcronym NWK. This is a required element that
      cannot be repeated.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:length value="3"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The beginDate element contains the beginning date of the
      person's participation in the role. This element is optional but highly recommended when
      known.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The endDate element contains the ending date of the
      person's participation in the role. This element is optional but highly recommended when
      known, and should agree with the value of the isActive element value (i.e. endDate in
      the past when isActive = false, endDate empty or in the future when isActive = true).</
      xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>The isActive element contains a boolean value indicating
      whether or not the person is currently active in the role. Possible values are true,
      false, 1 (i.e. true) or 0 (i.e. false). This element is required, and note that only one
      combination of roleType and siteAcronym should have isActive of true for the same person.
      Note that this element takes precedence over endDate for determining status of the role
      if they disagree.</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element personnel / person / roleList / role

Annotations	The role element contains elements describing a LTER Network role held by the person. This is a required element that can be repeated as many times as appropriate. Note that only one active role of type nsf should be assigned per site for each person element.						
Diagram	<p>The role element contains elements describing a LTER Network role held by the person. This is a required element that...</p> <ul style="list-style-type: none"> roleID Type: restriction of 'xs:integer' The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person.... roleType Type: extension of 'textField' The roleType element contains a role type from a controlled vocabulary of NSF roles or local roles defined in the LTER... siteAcronym Type: restriction of 'xs:string' The siteAcronym element contains a 3-letter acronym specifying the LTER site at which the person holds this role. For... beginDate Type: xs:date The beginDate element contains the beginning date of the person's participation in the role. This element is optional... endDate Type: xs:date The endDate element contains the ending date of the person's participation in the role. This element is optional but... isActive Type: xs:boolean The isActive element contains a boolean value indicating whether or not the person is currently active in the role.... 						
Properties	<table> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	minOccurs:	1	maxOccurs:	unbounded
content:	complex						
minOccurs:	1						
maxOccurs:	unbounded						
Model	roleID , roleType , siteAcronym , beginDate{0,1} , endDate{0,1} , isActive						
Children	beginDate, endDate, isActive, roleID, roleType, siteAcronym						
Instance	<pre> <role> <roleID>{1,1}</roleID> <roleType type="">{1,1}</roleType> <siteAcronym>{1,1}</siteAcronym> <beginDate>{0,1}</beginDate> <endDate>{0,1}</endDate> <isActive>{1,1}</isActive> </role> </pre>						
Source	<pre> <xs:element name="role" minOccurs="1" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The role element contains elements describing a LTER Network role held by the person. This is a required element that can be repeated as many times as appropriate. Note that only one active role of type nsf should be assigned per site for each person element.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="roleID" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person. This is a required element that cannot be repeated. For new roles to be added to the database, use a roleID of 0.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="roleType" minOccurs="1" maxOccurs="1"> <xs:annotation> </pre>						

```

<xs:documentation>The roleType element contains a role type from a controlled
vocabulary of NSF roles or local roles defined in the LTER Personnel Database. This is a
required element that cannot be repeated.</xs:documentation>
</xs:annotation>
<xs:complexType>
  <xs:simpleContent>
    <xs:extension base="textField">
      <xs:attribute name="type" use="required">
        <xs:annotation>
          <xs:documentation>The type attribute specifies the type or scope of the
roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-defined
and network-wide roles in the Personnel Database.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="nsf"/>
            <xs:enumeration value="local"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
</xs:element>
<xs:element name="siteAcronym" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The siteAcronym element contains a 3-letter acronym specifying
the LTER site at which the person holds this role. For network-wide roles not associated
with a specific site, use the siteAcronym NWK. This is a required element that cannot be
repeated.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:length value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The beginDate element contains the beginning date of the
person's participation in the role. This element is optional but highly recommended when
known.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The endDate element contains the ending date of the person's
participation in the role. This element is optional but highly recommended when known,
and should agree with the value of the isActive element value (i.e. endDate in the
past when isActive = false, endDate empty or in the future when isActive = true).</
xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The isActive element contains a boolean value indicating
whether or not the person is currently active in the role. Possible values are true,
false, 1 (i.e. true) or 0 (i.e. false). This element is required, and note that only one
combination of roleType and siteAcronym should have isActive of true for the same person.
Note that this element takes precedence over endDate for determining status of the role
if they disagree.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element personnel / person / roleList / role / roleID

Annotations	The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person. This is a required element that cannot be repeated. For new roles to be added to the database, use a roleID of 0.
Diagram	<pre> classDiagram class roleID { Type restriction of xs:integer } class restricts["restricts: xs:integer"] roleID --> restricts </pre> <p>The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person....</p>
Type	restriction of xs:integer

Properties	content:	simple
	minOccurs:	1
	maxOccurs:	1
Source	<pre> <xs:element name="roleID" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person. This is a required element that cannot be repeated. For new roles to be added to the database, use a roleID of 0.</ </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>	

Element personnel / person / roleList / role / roleType

Annotations	The roleType element contains a role type from a controlled vocabulary of NSF roles or local roles defined in the LTER Personnel Database. This is a required element that cannot be repeated.				
Diagram					
Type	extension of textField				
Type hierarchy	<ul style="list-style-type: none"> xs:string textField 				
Properties	content:	complex			
	minOccurs:	1			
	maxOccurs:	1			
Attributes	QName	Type	Fixed	Default	Use
	type	restriction of xs:string			required
	The type attribute specifies the type or scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-defined and network-wide roles in the Personnel Database.				
Source	<pre> <xs:element name="roleType" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The roleType element contains a role type from a controlled vocabulary of NSF roles or local roles defined in the LTER Personnel Database. This is a required element that cannot be repeated.</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="textField"> <xs:attribute name="type" use="required"> <xs:annotation> <xs:documentation>The type attribute specifies the type or scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-defined and network-wide roles in the Personnel Database.</xs:documentation> </xs:annotation> </xs:attribute> </xs:extension> </xs:simpleContent> </xs:complexType> </pre>				

</xs:element>

Element `personnel / person / roleList / role / siteAcronym`

Annotations	The siteAcronym element contains a 3-letter acronym specifying the LTER site at which the person holds this role. For network-wide roles not associated with a specific site, use the siteAcronym NWK. This is a required element that cannot be repeated.						
Diagram	<p>The siteAcronym element contains a 3-letter acronym specifying the LTER site at which the person holds this role. For...</p>						
Type	restriction of xs:string						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						
Source	<pre><xs:element name="siteAcronym" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The siteAcronym element contains a 3-letter acronym specifying the LTER site at which the person holds this role. For network-wide roles not associated with a specific site, use the siteAcronym NWK. This is a required element that cannot be repeated.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:length value="3"/> </xs:restriction> </xs:simpleType> </xs:element></pre>						

Element `personnel / person / roleList / role / beginDate`

Annotations	The beginDate element contains the beginning date of the person's participation in the role. This element is optional but highly recommended when known.						
Diagram	<p>The beginDate element contains the beginning date of the person's participation in the role. This element is optional...</p> <p>Built-in primitive type. The date datatype represents a calendar date.</p>						
Type	xs:date						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The beginDate element contains the beginning date of the person's participation in the role. This element is optional but highly recommended when known.</ </xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / roleList / role / endDate`

Annotations	The endDate element contains the ending date of the person's participation in the role. This element is optional but highly recommended when known, and should agree with the value of the isActive element value (i.e. endDate in the past when isActive = false, endDate empty or in the future when isActive = true).
Diagram	<p>The endDate element contains the ending date of the person's participation in the role. This element is optional but...</p> <p>Built-in primitive type. The date datatype represents a calendar date.</p>
Type	xs:date

Properties	content:	simple
	minOccurs:	0
	maxOccurs:	1
Source	<pre><xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The endDate element contains the ending date of the person's participation in the role. This element is optional but highly recommended when known, and should agree with the value of the isActive element value (i.e. endDate in the past when isActive = false, endDate empty or in the future when isActive = true).</ </xs:documentation> </xs:annotation> </xs:element></pre>	

Element `personnel / person / roleList / role / isActive`

Annotations	The isActive element contains a boolean value indicating whether or not the person is currently active in the role. Possible values are true, false, 1 (i.e. true) or 0 (i.e. false). This element is required, and note that only one combination of roleType and siteAcronym should have isActive of true for the same person. Note that this element takes precedence over endDate for determining status of the role if they disagree.	
Diagram		
Type	xs:boolean	
Properties	content:	simple
	minOccurs:	1
	maxOccurs:	1
Source	<pre><xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The isActive element contains a boolean value indicating whether or not the person is currently active in the role. Possible values are true, false, 1 (i.e. true) or 0 (i.e. false). This element is required, and note that only one combination of roleType and siteAcronym should have isActive of true for the same person. Note that this element takes precedence over endDate for determining status of the role if they disagree.</xs:documentation> </xs:annotation> </xs:element></pre>	

Element `personnel / person / contactInfoList`

Annotations	The contactInfoList element contains one or more sets of contact information for the person. This element is optional, but if included cannot be repeated and must include at least one contactInfo element.	
Diagram		
Properties	content:	complex
	minOccurs:	0
	maxOccurs:	1
Model	contactInfo+	
Children	contactInfo	
Instance	<pre><contactInfoList> <contactInfo>{1,unbounded}</contactInfo> </contactInfoList></pre>	
Source	<pre><xs:element name="contactInfoList" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The contactInfoList element contains one or more sets of contact information for the person. This element is optional, but if included cannot be repeated and must include at least one contactInfo element.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence></pre>	


```

<xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The contactInfo element contains one set of contact
    information for the person, including a descriptive label element and isPrimary boolean
    element specifying which set of contact information should be used for official LTER
    communication.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="contactInfoID">
        <xs:annotation>
          <xs:documentation>The contactInfoID element contains an unsigned integer
          representing the LTER Personnel Database ID of the contact information record. This is
          a required element. For new sets of contact information, specify 0 for contactInfoID.</
          xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:integer">
            <xs:minInclusive value="0"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="label" type="textField" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The label element contains a descriptive text label
          describing the set of contact information for the person (e.g. Primary institutional
          contact information, Field station address during the summer). This label is intended to
          convey information to end-users of the LTER directory regarding which contact information
          is appropriate to use under different circumstances. This is a required element.</
          xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="isPrimary" type="xs:boolean" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The isPrimary element contains a boolean value
          specifying whether the contact information represents the primary address of the person
          for official LTER communication. Possible values are true, false, 1 (i.e. true) and 0
          (i.e. false). This is a required element.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The beginDate element contains the beginning date for
          the respective contact information. This element is optional but highly recommended when
          known.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The endDate element contains the ending date for the
          respective contact information. This element is optional but highly recommended when
          known, and should agree with the value of the isActive element value (i.e. endDate in
          the past when isActive = false, endDate empty or in the future when isActive = true).</
          xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The isActive element contains a boolean value indicating
          whether or not the contact information is currently active. Possible values are true,
          false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="address" type="textField" minOccurs="0"
      maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>The address element contains the delivery address
          for the person (e.g. street address). This element is optional and can be repeated for
          multiple address lines.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="institution" type="textField" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The institution element contains the name of the
          institution or organization at which the person is located. This element is optional.</
          xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="city" type="textField" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The city element contains the name of the city in which
          the person resides. This element is optional.</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

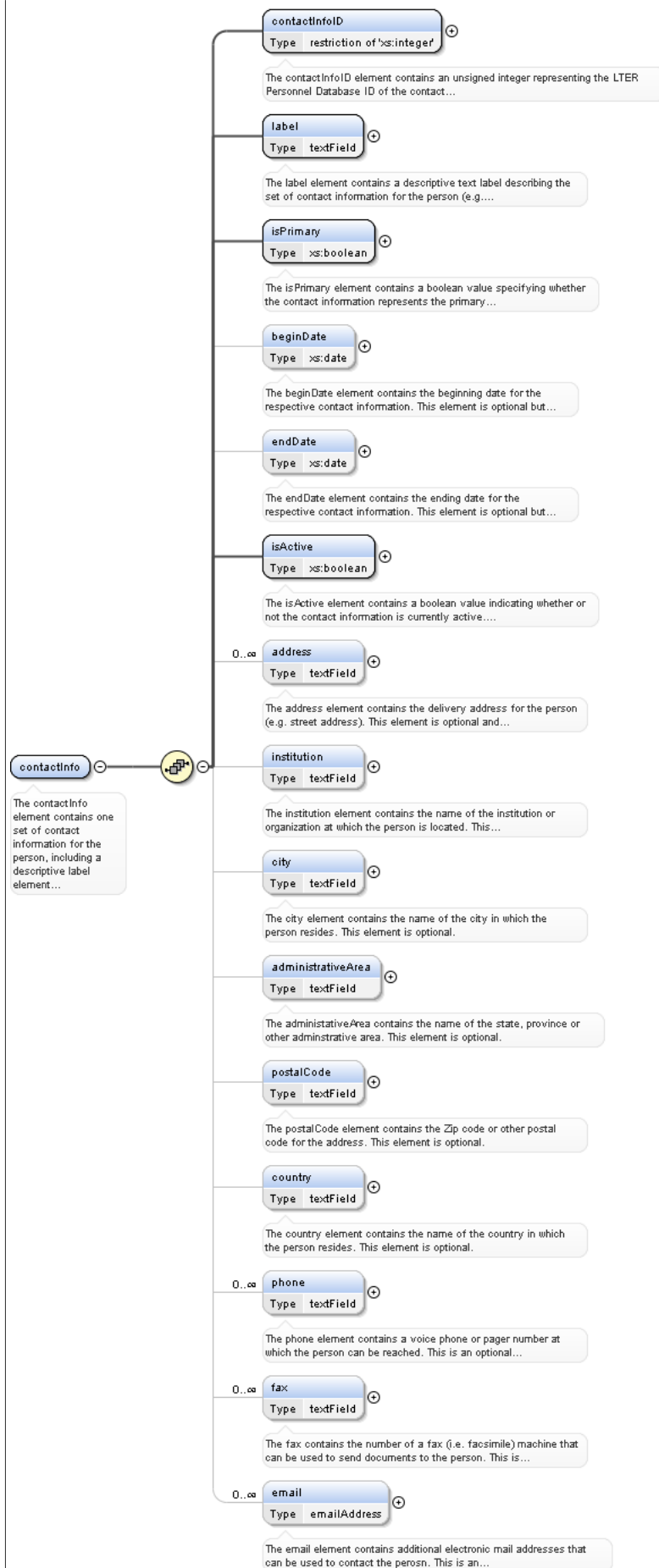
</xs:element>
<xs:element name="administrativeArea" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The administrativeArea contains the name of the state,
    province or other administrative area. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="postalCode" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The postalCode element contains the Zip code or other
    postal code for the address. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="country" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The country element contains the name of the country in
    which the person resides. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="phone" type="textField" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The phone element contains a voice phone or pager number
    at which the person can be reached. This is an optional element that can be repeated as
    many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="fax" type="textField" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The fax contains the number of a fax (i.e. facsimile)
    machine that can be used to send documents to the person. This is an optional element
    that can be repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="email" type="emailAddress" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The email element contains additional electronic mail
    addresses that can be used to contact the person. This is an optional element that can be
    repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element personnel / person / contactInfoList / contactInfo

Annotations	The contactInfo element contains one set of contact information for the person, including a descriptive label element and isPrimary boolean element specifying which set of contact information should be used for official LTER communication.
-------------	---

Diagram



Properties	content: complex
	minOccurs: 1
	maxOccurs: unbounded
Model	contactInfoID , label , isPrimary , beginDate{0,1} , endDate{0,1} , isActive , address* , institution{0,1} , city{0,1} , administrativeArea{0,1} , postalCode{0,1} , country{0,1} , phone* , fax* , email*
Children	address, administrativeArea, beginDate, city, contactInfoID, country, email, endDate, fax, institution, isActive, isPrimary, label, phone, postalCode
Instance	<pre> <contactInfo> <contactInfoID>{1,1}</contactInfoID> <label>{1,1}</label> <isPrimary>{1,1}</isPrimary> <beginDate>{0,1}</beginDate> <endDate>{0,1}</endDate> <isActive>{1,1}</isActive> <address>{0,unbounded}</address> <institution>{0,1}</institution> <city>{0,1}</city> <administrativeArea>{0,1}</administrativeArea> <postalCode>{0,1}</postalCode> <country>{0,1}</country> <phone>{0,unbounded}</phone> <fax>{0,unbounded}</fax> <email>{0,unbounded}</email> </contactInfo> </pre>
Source	<pre> <xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The contactInfo element contains one set of contact information for the person, including a descriptive label element and isPrimary boolean element specifying which set of contact information should be used for official LTER communication.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="contactInfoID"> <xs:annotation> <xs:documentation>The contactInfoID element contains an unsigned integer representing the LTER Personnel Database ID of the contact information record. This is a required element. For new sets of contact information, specify 0 for contactInfoID.</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="label" type="textField" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The label element contains a descriptive text label describing the set of contact information for the person (e.g. Primary institutional contact information, Field station address during the summer). This label is intended to convey information to end-users of the LTER directory regarding which contact information is appropriate to use under different circumstances. This is a required element.</ xs:documentation> </xs:annotation> </xs:element> <xs:element name="isPrimary" type="xs:boolean" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The isPrimary element contains a boolean value specifying whether the contact information represents the primary address of the person for official LTER communication. Possible values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The beginDate element contains the beginning date for the respective contact information. This element is optional but highly recommended when known.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The endDate element contains the ending date for the respective contact information. This element is optional but highly recommended when known, and should agree with the value of the isActive element value (i.e. endDate in the past when isActive = false, endDate empty or in the future when isActive = true).</ xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>

```

</xs:annotation>
</xs:element>
<xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The isActive element contains a boolean value indicating
    whether or not the contact information is currently active. Possible values are true,
    false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="address" type="textField" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The address element contains the delivery address for the
    person (e.g. street address). This element is optional and can be repeated for multiple
    address lines.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="institution" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The institution element contains the name of the
    institution or organization at which the person is located. This element is optional.</
    xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="city" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The city element contains the name of the city in which the
    person resides. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="administrativeArea" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The administrativeArea contains the name of the state, province
    or other administrative area. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="postalCode" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The postalCode element contains the Zip code or other postal
    code for the address. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="country" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The country element contains the name of the country in which
    the person resides. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="phone" type="textField" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The phone element contains a voice phone or pager number at
    which the person can be reached. This is an optional element that can be repeated as many
    times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="fax" type="textField" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The fax contains the number of a fax (i.e. facsimile) machine
    that can be used to send documents to the person. This is an optional element that can be
    repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="email" type="emailAddress" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The email element contains additional electronic mail
    addresses that can be used to contact the person. This is an optional element that can be
    repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element personnel / person / contactInfoList / contactInfo / contactInfoID

Annotations	The contactInfoID element contains an unsigned integer representing the LTER Personnel Database ID of the contact information record. This is a required element. For new sets of contact information, specify 0 for contactInfoID.
-------------	---

Diagram	
Type	restriction of xs:integer
Properties	content: simple
Source	<pre> <xs:element name="contactInfoID"> <xs:annotation> <xs:documentation>The contactInfoID element contains an unsigned integer representing the LTER Personnel Database ID of the contact information record. This is a required element. For new sets of contact information, specify 0 for contactInfoID.</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:integer"> <xs:minInclusive value="0"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

Element `personnel / person / contactInfoList / contactInfo / label`

Annotations	The label element contains a descriptive text label describing the set of contact information for the person (e.g. Primary institutional contact information, Field station address during the summer). This label is intended to convey information to end-users of the LTER directory regarding which contact information is appropriate to use under different circumstances. This is a required element.
Diagram	
Type	textField
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	<pre> <xs:element name="label" type="textField" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The label element contains a descriptive text label describing the set of contact information for the person (e.g. Primary institutional contact information, Field station address during the summer). This label is intended to convey information to end-users of the LTER directory regarding which contact information is appropriate to use under different circumstances. This is a required element.</ xs:documentation> </xs:annotation> </xs:element> </pre>

Element `personnel / person / contactInfoList / contactInfo / isPrimary`

Annotations	The isPrimary element contains a boolean value specifying whether the contact information represents the primary address of the person for official LTER communication. Possible values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source	<pre> <xs:element name="isPrimary" type="xs:boolean" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The isPrimary element contains a boolean value specifying whether the contact information represents the primary address of the person for official LTER communication. Possible values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</xs:documentation> </xs:annotation> </xs:element> </pre>
--------	---

Element `personnel / person / contactInfoList / contactInfo / beginDate`

Annotations	The beginDate element contains the beginning date for the respective contact information. This element is optional but highly recommended when known.						
Diagram							
Type	xs:date						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre> <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The beginDate element contains the beginning date for the respective contact information. This element is optional but highly recommended when known.</ xs:documentation> </xs:annotation> </xs:element> </pre>						

Element `personnel / person / contactInfoList / contactInfo / endDate`

Annotations	The endDate element contains the ending date for the respective contact information. This element is optional but highly recommended when known, and should agree with the value of the isActive element value (i.e. endDate in the past when isActive = false, endDate empty or in the future when isActive = true).						
Diagram							
Type	xs:date						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre> <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The endDate element contains the ending date for the respective contact information. This element is optional but highly recommended when known, and should agree with the value of the isActive element value (i.e. endDate in the past when isActive = false, endDate empty or in the future when isActive = true).</ xs:documentation> </xs:annotation> </xs:element> </pre>						

Element `personnel / person / contactInfoList / contactInfo / isActive`

Annotations	The isActive element contains a boolean value indicating whether or not the contact information is currently active. Possible values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.
-------------	---

Diagram							
Type	xs:boolean						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						
Source	<pre><xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1"> <xs:annotation> <xs:documentation>The isActive element contains a boolean value indicating whether or not the contact information is currently active. Possible values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / contactInfoList / contactInfo / address`

Annotations	The address element contains the delivery address for the person (e.g. street address). This element is optional and can be repeated for multiple address lines.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	unbounded
content:	simple						
minOccurs:	0						
maxOccurs:	unbounded						
Source	<pre><xs:element name="address" type="textField" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The address element contains the delivery address for the person (e.g. street address). This element is optional and can be repeated for multiple address lines.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / contactInfoList / contactInfo / institution`

Annotations	The institution element contains the name of the institution or organization at which the person is located. This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="institution" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The institution element contains the name of the institution or organization at which the person is located. This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element personnel / person / contactInfoList / contactInfo / city

Annotations	The city element contains the name of the city in which the person resides. This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="city" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The city element contains the name of the city in which the person resides. This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

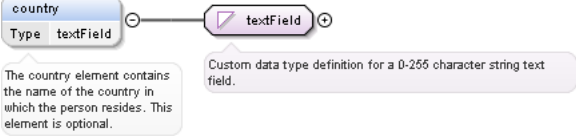
Element personnel / person / contactInfoList / contactInfo / administrativeArea

Annotations	The administrativeArea contains the name of the state, province or other administrative area. This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="administrativeArea" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The administrativeArea contains the name of the state, province or other administrative area. This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

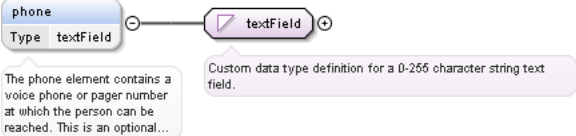
Element personnel / person / contactInfoList / contactInfo / postalCode

Annotations	The postalCode element contains the Zip code or other postal code for the address. This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="postalCode" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The postalCode element contains the Zip code or other postal code for the address. This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						


Element `personnel / person / contactInfoList / contactInfo / country`

Annotations	The country element contains the name of the country in which the person resides. This element is optional.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="country" type="textField" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The country element contains the name of the country in which the person resides. This element is optional.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / contactInfoList / contactInfo / phone`

Annotations	The phone element contains a voice phone or pager number at which the person can be reached. This is an optional element that can be repeated as many times as appropriate.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	unbounded
content:	simple						
minOccurs:	0						
maxOccurs:	unbounded						
Source	<pre><xs:element name="phone" type="textField" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The phone element contains a voice phone or pager number at which the person can be reached. This is an optional element that can be repeated as many times as appropriate.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element `personnel / person / contactInfoList / contactInfo / fax`

Annotations	The fax contains the number of a fax (i.e. facsimile) machine that can be used to send documents to the person. This is an optional element that can be repeated as many times as appropriate.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	unbounded
content:	simple						
minOccurs:	0						
maxOccurs:	unbounded						
Source	<pre><xs:element name="fax" type="textField" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The fax contains the number of a fax (i.e. facsimile) machine that can be used to send documents to the person. This is an optional element that can be repeated as many times as appropriate.</xs:documentation> </xs:annotation> </xs:element></pre>						

</xs:element>

Element personnel / person / contactInfoList / contactInfo / email

Annotations	The email element contains additional electronic mail addresses that can be used to contact the perosn. This is an optional element that can be repeated as many times as appropriate.
Diagram	
Type	emailAddress
Properties	content: simple minOccurs: 0 maxOccurs: unbounded
Source	<pre><xs:element name="email" type="emailAddress" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The email element contains additional electronic mail addresses that can be used to contact the perosn. This is an optional element that can be repeated as many times as appropriate.</xs:documentation> </xs:annotation> </xs:element></pre>

Simple Type(s)**Simple Type textField**

Annotations	Custom data type definition for a 0-255 character string text field.
Diagram	
Type	restriction of xs:string
Used by	Elements personnel/person/contactInfoList/contactInfo/address, personnel/person/contactInfoList/contactInfo/administrativeArea, personnel/person/contactInfoList/contactInfo/city, personnel/person/contactInfoList/contactInfo/country, personnel/person/contactInfoList/contactInfo/fax, personnel/person/contactInfoList/contactInfo/institution, personnel/person/contactInfoList/contactInfo/label, personnel/person/contactInfoList/contactInfo/phone, personnel/person/contactInfoList/contactInfo/postalCode, personnel/person/identity/firstName, personnel/person/identity/lastName, personnel/person/identity/middleName, personnel/person/identity/nameAlias, personnel/person/identity/preferredName, personnel/person/identity/prefix, personnel/person/identity/suffix, personnel/person/identity/title, personnel/person/roleList/role/roleType
Source	<pre><xs:simpleType name="textField"> <xs:annotation> <xs:documentation>Custom data type definition for a 0-255 character string text field.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:minLength value="0"/> <xs:maxLength value="255"/> </xs:restriction> </xs:simpleType></pre>

Simple Type emailAddress

Annotations	Custom data type definition for an email address.
Diagram	
Type	restriction of xs:string
Used by	Elements personnel/person/contactInfoList/contactInfo/email, personnel/person/identity/primaryEmail

Source	<pre> <xs:simpleType name="emailAddress"> <xs:annotation> <xs:documentation>Custom data type definition for an email address.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="^[^@]+@[^\.]+\.\.+" /> </xs:restriction> </xs:simpleType> </pre>
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Attribute(s)

Attribute personnel / person / roleList / role / roleType / @type

Annotations	The type attribute specifies the type or scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-defined and network-wide roles in the Personnel Database.
Type	restriction of xs:string
Properties	use: required
Used by	Element personnel/person/roleList/role/roleType
Source	<pre> <xs:attribute name="type" use="required"> <xs:annotation> <xs:documentation>The type attribute specifies the type or scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-defined and network-wide roles in the Personnel Database.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="nsf"/> <xs:enumeration value="local"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

Attribute personnel / person / @changeDate

Annotations	The changeDate attribute lists the date any content in the personnel record was last modified. This is a read-only attribute that will be ignored when submitting or updating personnel information in the database.
Type	xs:date
Properties	content: simple
Used by	Element personnel/person
Source	<pre> <xs:attribute name="changeDate" type="xs:date"> <xs:annotation> <xs:documentation>The changeDate attribute lists the date any content in the personnel record was last modified. This is a read-only attribute that will be ignored when submitting or updating personnel information in the database.</xs:documentation> </xs:annotation> </xs:attribute> </pre>