

Schema documentation for lter-personnelDB.xsd

february 24, 2011

Table of Contents

Schema(s)	1
Main schema lter-personnelDB.xsd	1
Element(s)	2
Element personnel	2
Element personnel / person	6
Element personnel / person / personID	11
Element personnel / person / identity	11
Element personnel / person / identity / prefix	13
Element personnel / person / identity / firstName	14
Element personnel / person / identity / middleName	14
Element personnel / person / identity / lastName	14
Element personnel / person / identity / suffix	15
Element personnel / person / identity / preferredName	15
Element personnel / person / identity / title	15
Element personnel / person / identity / primaryEmail	16
Element personnel / person / identity / optOut	16
Element personnel / person / identity / nameAlias	17
Element personnel / person / roleList	17
Element personnel / person / roleList / role	19
Element personnel / person / roleList / role / roleID	20
Element personnel / person / roleList / role / roleType	21
Element personnel / person / roleList / role / siteAcronym	21
Element personnel / person / roleList / role / beginDate	22
Element personnel / person / roleList / role / endDate	22
Element personnel / person / roleList / role / isActive	22
Element personnel / person / contactInfoList	23
Element personnel / person / contactInfoList / contactInfo	25
Element personnel / person / contactInfoList / contactInfo / contactInfoID	28
Element personnel / person / contactInfoList / contactInfo / label	29
Element personnel / person / contactInfoList / contactInfo / isPrimary	29
Element personnel / person / contactInfoList / contactInfo / isActive	29
Element personnel / person / contactInfoList / contactInfo / address	30
Element personnel / person / contactInfoList / contactInfo / institution	30
Element personnel / person / contactInfoList / contactInfo / city	30
Element personnel / person / contactInfoList / contactInfo / administrativeArea	31
Element personnel / person / contactInfoList / contactInfo / postalCode	31
Element personnel / person / contactInfoList / contactInfo / country	31
Element personnel / person / contactInfoList / contactInfo / phone	32
Element personnel / person / contactInfoList / contactInfo / fax	32
Element personnel / person / contactInfoList / contactInfo / email	32
Simple Type(s)	33
Simple Type textField	33
Simple Type emailAddress	33
Attribute(s)	33
Attribute personnel / person / roleList / role / @type	33

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.
Properties	<div>attribute form default: unqualified</div> <div>element form default: unqualified</div>

Element(s)

Element personnel

Annotations	This is the root element of an lter-personnelDB document.
Diagram	<p>This is the root element of an lter-personnelDB document.</p> <p>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>{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: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: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: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: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: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:documentation> </xs:annotation> </xs:element> <xs:element name="lastName" type="textField" minOccurs="1" maxOccurs="1"> <xs:annotation></pre>

```

        <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>
            </xs:simpleType>
            <xs:restriction base="xs:integer">
                <xs:minInclusive value="0"/>
            </xs:restriction>
        </xs:sequence>
    </xs:sequence>

```

```

        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="roleType" type="textField" 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: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:element>
    <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:attribute name="type" use="required">
    <xs:annotation>
      <xs:documentation>The type attribute specifies the type or scope
of the role. 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:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="nsf"/>
      <xs:enumeration value="local"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</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="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="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:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</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	<pre> graph LR person((person)) --- personID((personID)) person --- identity((identity)) person --- roleList((roleList)) person --- contactInfoList((contactInfoList)) </pre> <p>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.</p> <p>personID Type: restriction of 'xs:integer' The personID element contains an unsigned integer representing the database identifier for a personnel record in the...</p> <p>identity The identity element includes the primary identification information for an individual, including name, title and...</p> <p>roleList The roleList element contains descriptions of LTER Network roles held by the person at one or more LTER sites. This...</p> <p>contactInfoList The contactInfoList element contains one or more sets of contact information for the person. This element is optional...</p>						
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	personID , identity{0,1} , roleList{0,1} , contactInfoList{0,1}						
Children	contactInfoList, identity, personID, roleList						

Instance	<pre> <person> <personID>{1,1}</personID> <identity>{0,1}</identity> <roleList>{0,1}</roleList> <contactInfoList>{0,1}</contactInfoList> </person> </pre>
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: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> </pre>

```

        <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>
                        <xs:simpleType>
                            <xs:restriction base="xs:integer">
                                <xs:minInclusive value="0"/>
                            </xs:restriction>
                        </xs:simpleType>
                    </xs:element>
                    <xs:element name="roleType" type="textField" 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: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: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: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:attribute name="type" use="required">
    <xs:documentation>The type attribute specifies the type or scope of
the role. 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:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
    <xs:element name="contactInfoList" minOccurs="0" maxOccurs="1">
        <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: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: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 name="label" type="textField" minOccurs="1" maxOccurs="1">
                        <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="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>

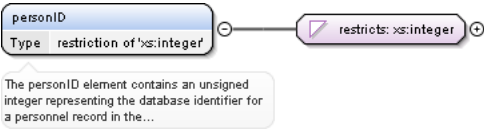
```

```

        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

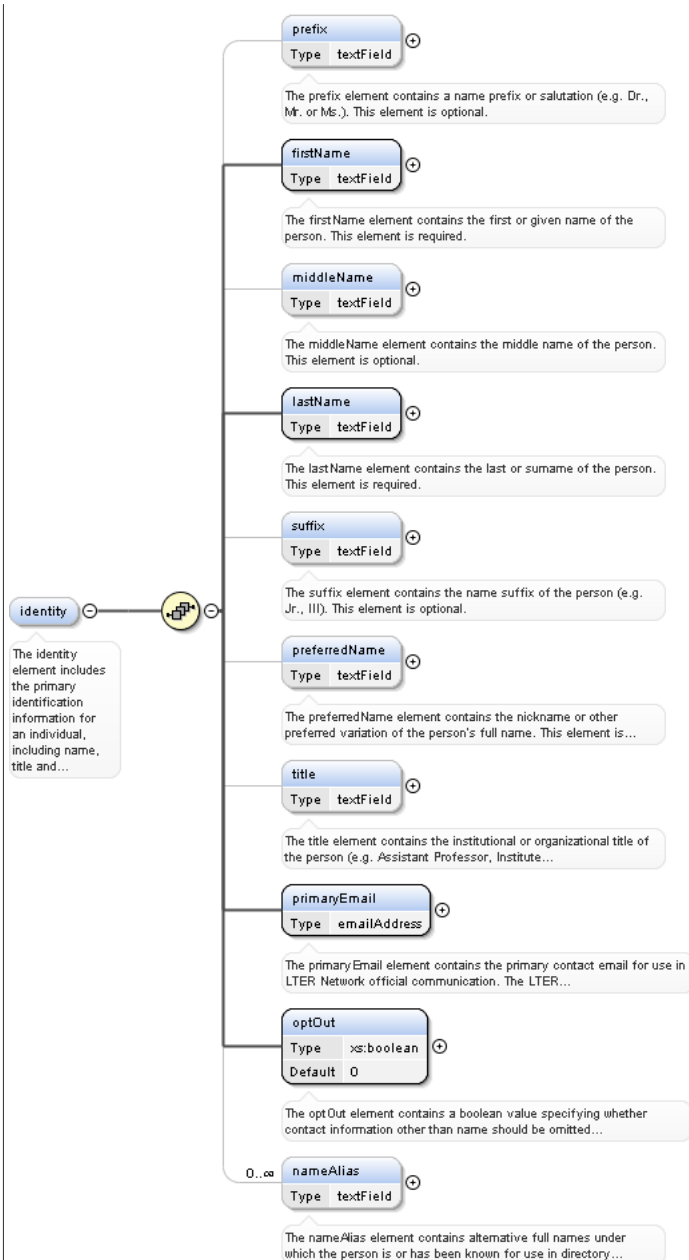
Element **personnel** / **person** / **personID**

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



Properties

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

```
<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>
```

Source

```
<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: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

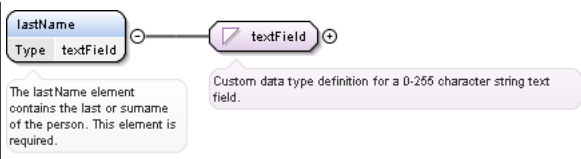
Annotations	The firstName element contains the first or given name of the person. This element is required.						
Diagram							
Type	textField						
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	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 type="">{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" type="textField" 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: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:attribute name="type" use="required">
    <xs:annotation>
        <xs:documentation>The type attribute specifies the type or scope of the
        role. 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:complexType>
</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 diagram illustrates the structure of the <code>role</code> element. It is a container element that can contain multiple instances of the following child elements:</p> <ul style="list-style-type: none">type: A required attribute of type <code>restriction of 'xs:string'</code>. Description: "The type attribute specifies the type or scope of the role. Allowed values are 'nsf' for pre-defined NSF roles and..."roleID: An element of type <code>restriction of 'xs:integer'</code>. Description: "The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person...."roleType: An element of type <code>textField</code>. Description: "The roleType element contains a role type from a controlled vocabulary of NSF roles or local roles defined in the LTER..."siteAcronym: An element of type <code>restriction of 'xs:string'</code>. Description: "The siteAcronym element contains a 3-letter acronym specifying the LTER site at which the person holds this role. For..."beginDate: An element of type <code>xs:date</code>. Description: "The beginDate element contains the beginning date of the person's participation in the role. This element is optional..."endDate: An element of type <code>xs:date</code>. Description: "The endDate element contains the ending date of the person's participation in the role. This element is optional but..."isActive: An element of type <code>xs:boolean</code>. Description: "The isActive element contains a boolean value indicating whether or not the person is currently active in the role...."				
Properties	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 type=""> <roleID>{1,1}</roleID> <roleType>{1,1}</roleType> <siteAcronym>{1,1}</siteAcronym> <beginDate>{0,1}</beginDate> <endDate>{0,1}</endDate> <isActive>{1,1}</isActive> </role></pre>				
Attributes	QName	Type	Fixed	Default	Use
	type	restriction of xs:string			required
		The type attribute specifies the type or scope of the role. 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="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></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>
<xs:element name="roleType" type="textField" 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: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: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:attribute name="type" use="required">
  <xs:annotation>
    <xs:documentation>The type attribute specifies the type or scope of the role.
    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: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	<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	<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="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	<p>The roleType element contains a role type from a controlled vocabulary of NSF roles or local roles defined in the LTER...</p> <p>Custom data type definition for a 0-255 character string text field.</p>						
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="roleType" type="textField" 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:element></pre>						

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</pre>						

```

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>

```

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							
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							
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 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	<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 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	<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	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> <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"></pre>						

```

<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="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>

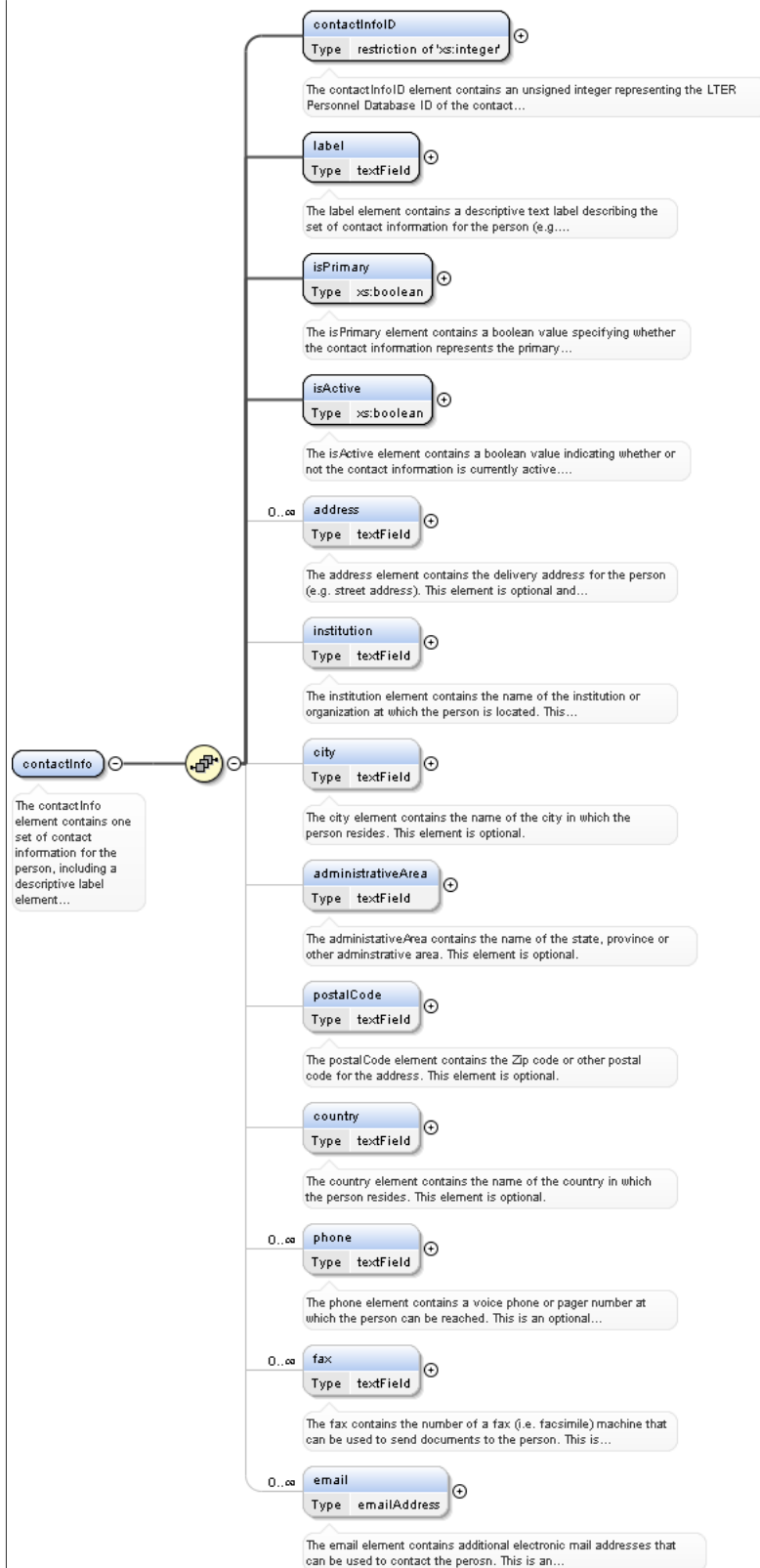
```


	<pre><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></pre>
--	---

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

Annotations	The <code>contactInfo</code> element contains one set of contact information for the person, including a descriptive label element and <code>isPrimary</code> 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 , isActive , address* , institution{0,1} , city{0,1} , administrativeArea{0,1} , postalCode{0,1} , country{0,1} , phone* , fax* , email*

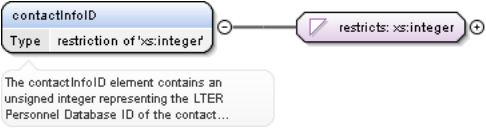
Children	address, administrativeArea, city, contactInfoID, country, email, fax, institution, isActive, isPrimary, label, phone, postalCode
Instance	<pre> <contactInfo> <contactInfoID>{1,1}</contactInfoID> <label>{1,1}</label> <isPrimary>{1,1}</isPrimary> <isActive>{1,1}</isActive> <address>{0,unbounded}</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="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> </pre>

```

<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	<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="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	<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="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 / 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	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	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	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	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	<p>The administrativeArea contains the name of the state, province or other administrative area. This element is optional.</p> <p>Custom data type definition for a 0-255 character string text field.</p>
Type	textField
Properties	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	<p>The postalCode element contains the Zip code or other postal code for the address. This element is optional.</p> <p>Custom data type definition for a 0-255 character string text field.</p>
Type	textField
Properties	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	<p>The country element contains the name of the country in which the person resides. This element is optional.</p> <p>Custom data type definition for a 0-255 character string text field.</p>
Type	textField

Properties	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	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	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>	

Element **personnel / person / contactInfoList / contactInfo / email**

Annotations	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.	
Diagram		

Simple Type textField

Simple Type emailAddress

Attribute(s)

Annotations	The type attribute specifies the type or scope of the role. 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
Source	<pre> <xs:attribute name="type" use="required"> <xs:annotation> <xs:documentation>The type attribute specifies the type or scope of the role. 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>