

# Schema documentation for lter-personnelDB.xsd

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## Schema(s)

### Main schema lter-personnelDB.xsd

Annotations	This schema defines a data exchange standard for the LTER personnel database developed by the LTER Web Services Working Group. Each personnel document must include one or more person elements describing the identifying information, roles and contact information for an individual associated with the LTER Network. Working group participants include: Mason Kortz (chair; CCE/PAL), Sven Bohm (KBS), M. Gastil Buhl (MCR), Corinna Gries (NTL), Wade Sheldon (GCE) and Jonathan Walsh (BES) Copyright 2011 Long Term Ecological Research Network.
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>&lt;personnel&gt;   &lt;person&gt;{1,unbounded}&lt;/person&gt; &lt;/personnel&gt;</pre>
Source	<pre>&lt;xs:element name="personnel"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;This is the root element of an lter-personnelDB document.&lt;/   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="person" minOccurs="1" maxOccurs="unbounded"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;         &lt;xs:complexType&gt;           &lt;xs:sequence&gt;             &lt;xs:element name="personID" minOccurs="1" maxOccurs="1"&gt;               &lt;xs:annotation&gt;                 &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;               &lt;/xs:annotation&gt;               &lt;xs:simpleType&gt;                 &lt;xs:restriction base="xs:integer"&gt;                   &lt;xs:minInclusive value="0"/&gt;                 &lt;/xs:restriction&gt;               &lt;/xs:simpleType&gt;             &lt;/xs:element&gt;             &lt;xs:element name="identity" minOccurs="0" maxOccurs="1"&gt;               &lt;xs:annotation&gt;                 &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;               &lt;/xs:annotation&gt;               &lt;xs:complexType&gt;                 &lt;xs:sequence&gt;                   &lt;xs:element name="prefix" type="textField" minOccurs="0" maxOccurs="1"&gt;                     &lt;xs:annotation&gt;                       &lt;xs:documentation&gt;The prefix element contains a name prefix or                         salutation (e.g. Dr., Mr. or Ms.). This element is optional.&lt;/xs:documentation&gt;                     &lt;/xs:annotation&gt;                   &lt;/xs:element&gt;                   &lt;xs:element name="firstName" type="textField" minOccurs="1"                     maxOccurs="1"&gt;                     &lt;xs:annotation&gt;                       &lt;xs:documentation&gt;The firstName element contains the first or given                         name of the person. This element is required.&lt;/xs:documentation&gt;                     &lt;/xs:annotation&gt;                   &lt;/xs:element&gt;                   &lt;xs:element name="middleName" type="textField" minOccurs="0"                     maxOccurs="1"&gt;                     &lt;xs:annotation&gt;                       &lt;xs:documentation&gt;The middleName element contains the middle name of                         the person. This element is optional.&lt;/xs:documentation&gt;                     &lt;/xs:annotation&gt;                   &lt;/xs:element&gt;                   &lt;xs:element name="lastName" type="textField" minOccurs="1"                     maxOccurs="1"&gt;                     &lt;xs:annotation&gt;</pre>

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        <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"/>

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        </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>

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        <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="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:sequence>
    </xs:complexType>

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        </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>

```

## Element personnel / person

Annotations	The person element contains the database identifier, identity information, roles and contact information for one or more individuals in the LTER Network. At least one person element is required.						
Diagram	<p>The diagram illustrates the structure of the <b>person</b> element. It is a complex element containing four sub-elements: <b>personID</b>, <b>identity</b>, <b>roleList</b>, and <b>contactInfoList</b>. Each sub-element is represented by a blue box with a yellow icon and a description:</p> <ul style="list-style-type: none"> <li><b>personID</b>: The personID element contains an unsigned integer representing the database identifier for a personnel record in the...</li> <li><b>identity</b>: The identity element includes the primary identification information for an individual, including name, title and...</li> <li><b>roleList</b>: The roleList element contains descriptions of LTER Network roles held by the person at one or more LTER sites. This...</li> <li><b>contactInfoList</b>: The contactInfoList element contains one or more sets of contact information for the person. This element is optional,...</li> </ul>						
Properties	<table border="1"> <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> &lt;person&gt;   &lt;personID&gt;{1,1}&lt;/personID&gt;   &lt;identity&gt;{0,1}&lt;/identity&gt;   &lt;roleList&gt;{0,1}&lt;/roleList&gt;   &lt;contactInfoList&gt;{0,1}&lt;/contactInfoList&gt; &lt;/person&gt; </pre>						

## Source

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

```

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<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:annotation>

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        <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>
<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

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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="address" type="textField" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The address element contains the delivery address
for the person (e.g. street address). This element is optional and can be repeated for
multiple address lines.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="institution" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The institution element contains the name of the
institution or organization at which the person is located. This element is optional.</
xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="city" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The city element contains the name of the city in
which the person resides. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="administrativeArea" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The administrativeArea contains the name of the
state, province or other administrative area. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="postalCode" type="textField" minOccurs="0"
maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The postalCode element contains the Zip code or
other postal code for the address. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="country" type="textField" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>The country element contains the name of the
country in which the person resides. This element is optional.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="phone" type="textField" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The phone element contains a voice phone or
pager number at which the person can be reached. This is an optional element that can be
repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="fax" type="textField" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The fax contains the number of a fax (i.e.
facsimile) machine that can be used to send documents to the person. This is an optional
element that can be repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="email" type="emailAddress" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The email element contains additional electronic
mail addresses that can be used to contact the person. This is an optional element that
can be repeated as many times as appropriate.</xs:documentation>
  </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</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							
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> &lt;xs:element name="personID" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:integer"&gt;       &lt;xs:minInclusive value="0"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>						

**Element personnel / person / identity**

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

Diagram	<p><b>identity</b> (Type: complex) The identity element includes the primary identification information for an individual, including name, title and...</p> <ul style="list-style-type: none"> <li><b>prefix</b> (Type: textField) The prefix element contains a name prefix or salutation (e.g. Dr., Mr. or Ms.). This element is optional.</li> <li><b>firstName</b> (Type: textField) The firstName element contains the first or given name of the person. This element is required.</li> <li><b>middleName</b> (Type: textField) The middleName element contains the middle name of the person. This element is optional.</li> <li><b>lastName</b> (Type: textField) The lastName element contains the last or surname of the person. This element is required.</li> <li><b>suffix</b> (Type: textField) The suffix element contains the name suffix of the person (e.g. Jr., III). This element is optional.</li> <li><b>preferredName</b> (Type: textField) The preferredName element contains the nickname or other preferred variation of the person's full name. This element is optional.</li> <li><b>title</b> (Type: textField) The title element contains the institutional or organizational title of the person (e.g. Assistant Professor, Institute...).</li> <li><b>primaryEmail</b> (Type: emailAddress) The primaryEmail element contains the primary contact email for use in LTER Network official communication. The LTER...</li> <li><b>optOut</b> (Type: xs:boolean, Default: 0) The optOut element contains a boolean value specifying whether contact information other than name should be omitted...</li> <li><b>nameAlias</b> (Type: textField) The nameAlias element contains alternative full names under which the person is or has been known for use in directory...</li> </ul>						
Properties	<table> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	1
content:	complex						
minOccurs:	0						
maxOccurs:	1						
Model	prefix{0,1} , firstName , middleName{0,1} , lastName , suffix{0,1} , preferredName{0,1} , title{0,1} , primaryEmail , optOut , nameAlias*						
Children	firstName, lastName, middleName, nameAlias, optOut, preferredName, prefix, primaryEmail, suffix, title						
Instance	<pre> &lt;identity&gt;   &lt;prefix&gt;{0,1}&lt;/prefix&gt;   &lt;firstName&gt;{1,1}&lt;/firstName&gt;   &lt;middleName&gt;{0,1}&lt;/middleName&gt;   &lt;lastName&gt;{1,1}&lt;/lastName&gt;   &lt;suffix&gt;{0,1}&lt;/suffix&gt;   &lt;preferredName&gt;{0,1}&lt;/preferredName&gt;   &lt;title&gt;{0,1}&lt;/title&gt; </pre>						

	<pre> &lt;primaryEmail&gt;{1,1}&lt;/primaryEmail&gt; &lt;optOut&gt;{1,1}&lt;/optOut&gt; &lt;nameAlias&gt;{0,unbounded}&lt;/nameAlias&gt; &lt;/identity&gt; </pre>
Source	<pre> &lt;xs:element name="identity" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="prefix" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The prefix element contains a name prefix or salutation (e.g.           Dr., Mr. or Ms.). This element is optional.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="firstName" type="textField" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The firstName element contains the first or given name of the           person. This element is required.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="middleName" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The middleName element contains the middle name of the person.           This element is optional.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="lastName" type="textField" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The lastName element contains the last or surname of the           person. This element is required.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="suffix" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The suffix element contains the name suffix of the person           (e.g. Jr., III). This element is optional.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="preferredName" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The preferredName element contains the nickname or           other preferred variation of the person's full name. This element is optional.&lt;/           xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="title" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="primaryEmail" type="emailAddress" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="optOut" type="xs:boolean" minOccurs="1" maxOccurs="1" default="0"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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).&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="nameAlias" type="textField" minOccurs="0" maxOccurs="unbounded"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

**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>&lt;xs:element name="prefix" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The prefix element contains a name prefix or salutation (e.g. Dr., Mr. or Ms.). This element is optional.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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>&lt;xs:element name="firstName" type="textField" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The firstName element contains the first or given name of the person. This element is required.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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>&lt;xs:element name="middleName" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The middleName element contains the middle name of the person. This element is optional.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>						

**Element `personnel / person / identity / lastName`**

Annotations	The <code>lastName</code> 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>&lt;xs:element name="lastName" type="textField" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The lastName element contains the last or surname of the person.     This element is required.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>						

**Element `personnel / person / identity / suffix`**

Annotations	The <code>suffix</code> 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>&lt;xs:element name="suffix" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The suffix element contains the name suffix of the person (e.g. Jr.,     III). This element is optional.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>						

**Element `personnel / person / identity / preferredName`**

Annotations	The <code>preferredName</code> 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>&lt;xs:element name="preferredName" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The preferredName element contains the nickname or other preferred     variation of the person's full name. This element is optional.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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	<p>The diagram shows a box for the <code>title</code> element with a note: "The title element contains the institutional or organizational title of the person (e.g. Assistant Professor, Institute...". It is connected to a <code>textField</code> data type box with a note: "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>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>&lt;xs:element name="title" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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	<p>The diagram shows a box for the <code>primaryEmail</code> element with a note: "The primaryEmail element contains the primary contact email for use in LTER Network official communication. The LTER...". It is connected to an <code>emailAddress</code> data type box with a note: "Custom data type definition for an email address."</p>						
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>&lt;xs:element name="primaryEmail" type="emailAddress" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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	<p>The diagram shows a box for the <code>optOut</code> element with a note: "The optOut element contains a boolean value specifying whether contact information other than name should be omitted...". It is connected to an <code>xs:boolean</code> data type box with a note: "Built-in primitive type. It defines the boolean values true and false."</p>						
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						



	default: 0
Source	<pre>&lt;xs:element name="optOut" type="xs:boolean" minOccurs="1" maxOccurs="1" default="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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).&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

## 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>&lt;xs:element name="nameAlias" type="textField" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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>&lt;roleList&gt;   &lt;role type=""&gt;{1,unbounded}&lt;/role&gt; &lt;/roleList&gt;</pre>						
Source	<pre>&lt;xs:element name="roleList" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/ xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;</pre>						

```

<xs:element name="role" minOccurs="1" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The role element contains elements describing a LTER Network
    role held by the person. This is a required element that can be repeated as many times as
    appropriate. Note that only one active role of type nsf should be assigned per site for
    each person element.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="roleID" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The roleID element contains an unsigned integer
          representing the personnel database ID of the role record for a person. This is a
          required element that cannot be repeated. For new roles to be added to the database, use
          a roleID of 0.</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:integer">
            <xs:minInclusive value="0"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="roleType" 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					
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>&lt;role type=""&gt;   &lt;roleID&gt;{1,1}&lt;/roleID&gt;   &lt;roleType&gt;{1,1}&lt;/roleType&gt;   &lt;siteAcronym&gt;{1,1}&lt;/siteAcronym&gt;   &lt;beginDate&gt;{0,1}&lt;/beginDate&gt;   &lt;endDate&gt;{0,1}&lt;/endDate&gt;   &lt;isActive&gt;{1,1}&lt;/isActive&gt; &lt;/role&gt;</pre>				
Attributes	QName	Type	Fixed	Default	Use
	type	restriction of xs:string			required

	QName	Type	Fixed	Default	Use
		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> &lt;xs:element name="role" minOccurs="1" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="roleID" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/           xs:documentation&gt;         &lt;/xs:annotation&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:integer"&gt;             &lt;xs:minInclusive value="0"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:element&gt;       &lt;xs:element name="roleType" type="textField" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="siteAcronym" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:string"&gt;             &lt;xs:length value="3"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:element&gt;       &lt;xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The beginDate element contains the beginning date of the           person's participation in the role. This element is optional but highly recommended when           known.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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).&lt;/           xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="type" use="required"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; </pre>			

```

<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							
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> &lt;xs:element name="roleID" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/ xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:integer"&gt;       &lt;xs:minInclusive value="0"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt; </pre>						

## Element personnel / person / roleList / role / roleType

Annotations	The roleType element contains a role type from a controlled vocabulary of NSF roles or local roles defined in the LTER Personnel Database. This is a required element that cannot be repeated.						
Diagram							
Type	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> &lt;xs:element name="roleType" type="textField" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </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>&lt;xs:element name="siteAcronym" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:length value="3"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>						

### Element personnel / person / roleList / role / beginDate

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

### Element personnel / person / roleList / role / endDate

Annotations	The endDate element contains the ending date of the person's participation in the role. This element is optional but highly recommended when known, and should agree with the value of the isActive element value (i.e. endDate in the past when isActive = false, endDate empty or in the future when isActive = true).						
Diagram	<p>The endDate element contains the ending date of the person's participation in the role. This element is optional but...</p> <p>Built-in primitive type. The date datatype represents a calendar date.</p>						
Type	xs:date						
Properties	<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>&lt;xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1"&gt;</pre>						

```

<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>

```

## 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> &lt;xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </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> &lt;contactInfoList&gt;   &lt;contactInfo&gt;{1,unbounded}&lt;/contactInfo&gt; &lt;/contactInfoList&gt; </pre>						
Source	<pre> &lt;xs:element name="contactInfoList" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The contactInfo element contains one set of contact           information for the person, including a descriptive label element and isPrimary boolean </pre>						

```

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="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:sequence>

```

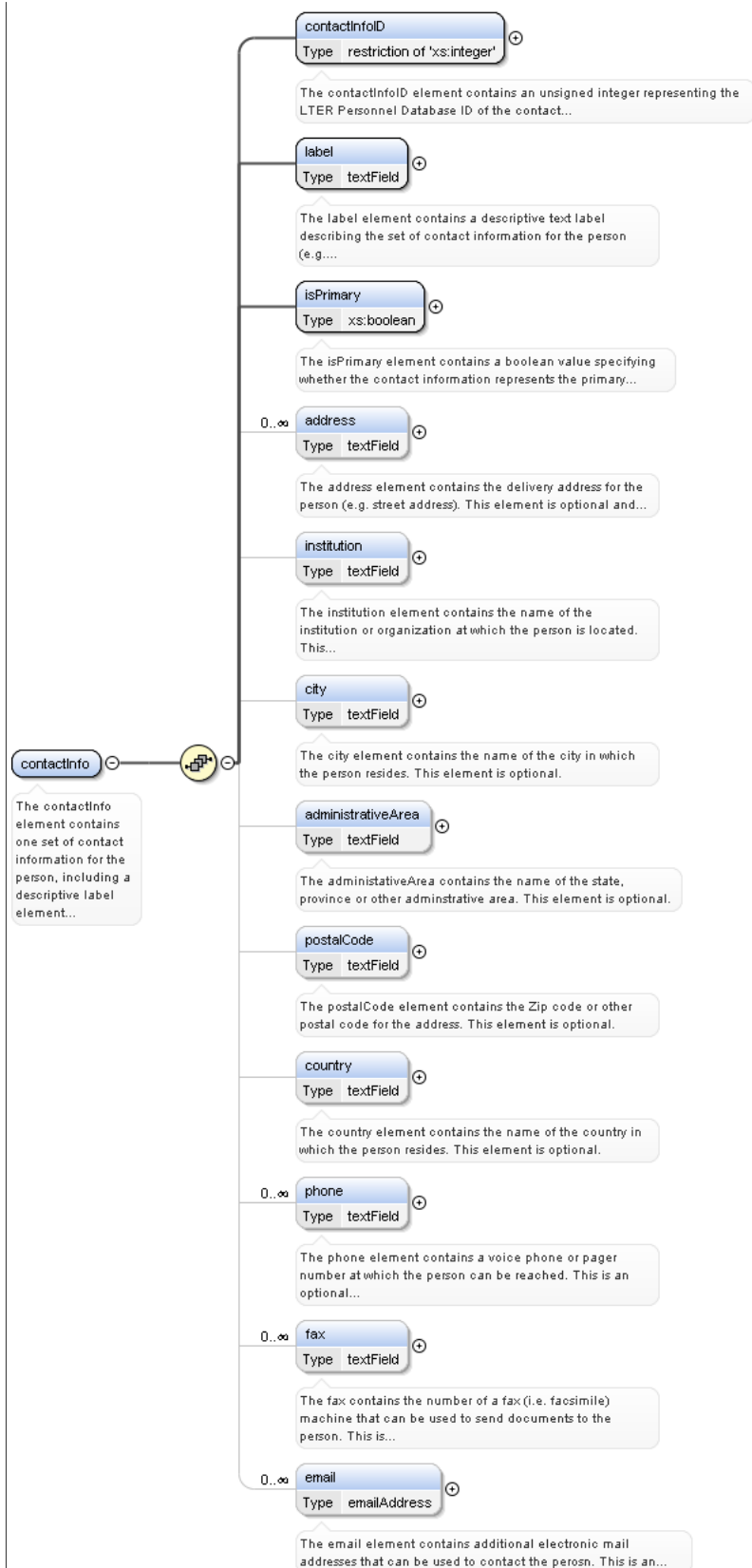


```
<xs:element name="fax" type="textField" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The fax contains the number of a fax (i.e. facsimile)
machine that can be used to send documents to the person. This is an optional element
that can be repeated as many times as appropriate.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

## Element personnel / person / contactInfoList / contactInfo

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

## Diagram



## Properties

content:	complex
minOccurs:	1
maxOccurs:	unbounded

## Model

`contactInfoID` , `label` , `isPrimary` , `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, isPrimary, label, phone, postalCode
Instance	<pre> &lt;contactInfo&gt;   &lt;contactInfoID&gt;{1,1}&lt;/contactInfoID&gt;   &lt;label&gt;{1,1}&lt;/label&gt;   &lt;isPrimary&gt;{1,1}&lt;/isPrimary&gt;   &lt;address&gt;{0,unbounded}&lt;/address&gt;   &lt;institution&gt;{0,1}&lt;/institution&gt;   &lt;city&gt;{0,1}&lt;/city&gt;   &lt;administrativeArea&gt;{0,1}&lt;/administrativeArea&gt;   &lt;postalCode&gt;{0,1}&lt;/postalCode&gt;   &lt;country&gt;{0,1}&lt;/country&gt;   &lt;phone&gt;{0,unbounded}&lt;/phone&gt;   &lt;fax&gt;{0,unbounded}&lt;/fax&gt;   &lt;email&gt;{0,unbounded}&lt;/email&gt; &lt;/contactInfo&gt; </pre>
Source	<pre> &lt;xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="contactInfoID"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:integer"&gt;             &lt;xs:minInclusive value="0"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:element&gt;       &lt;xs:element name="label" type="textField" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="isPrimary" type="xs:boolean" minOccurs="1" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="address" type="textField" minOccurs="0" maxOccurs="unbounded"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="institution" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The institution element contains the name of the           institution or organization at which the person is located. This element is optional.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="city" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The city element contains the name of the city in which the           person resides. This element is optional.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;       &lt;xs:element name="administrativeArea" type="textField" minOccurs="0" maxOccurs="1"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;The administrativeArea contains the name of the state, province           or other administrative area. This element is optional.&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:element&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </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>
<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>


```

## Element `personnel / person / contactInfoList / contactInfo / contactInfoID`

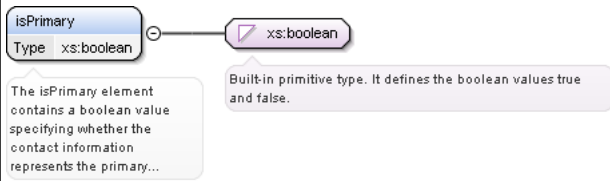
Annotations	The contactInfoID element contains an unsigned integer representing the LTER Personnel Database ID of the contact information record. This is a required element. For new sets of contact information, specify 0 for contactInfoID.
Diagram	<p>The contactInfoID element contains an unsigned integer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

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

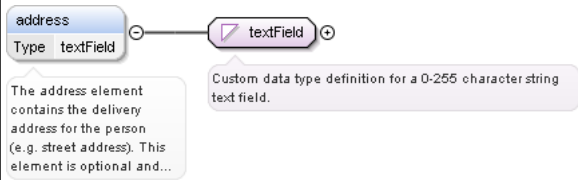
Annotations	The label element contains a descriptive text label describing the set of contact information for the person (e.g. Primary institutional contact information, Field station address during the summer). This label is intended to convey information to end-users of the LTER directory regarding 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>&lt;xs:element name="label" type="textField" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/ xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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>&lt;xs:element name="isPrimary" type="xs:boolean" minOccurs="1" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>						

### Element **personnel / person / contactInfoList / contactInfo / address**

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

Source	<pre> &lt;xs:element name="address" type="textField" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>
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## Element `personnel / person / contactInfoList / contactInfo / institution`

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

## Element `personnel / person / contactInfoList / contactInfo / city`


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

## Element `personnel / person / contactInfoList / contactInfo / administrativeArea`


Annotations	The administrativeArea contains the name of the state, province or other administrative area. This element is optional.		
Diagram			
Type	textField		
Properties	<table> <tr> <td>content:</td><td>simple</td></tr> </table>	content:	simple
content:	simple		

	minOccurs: 0
	maxOccurs: 1
Source	<pre>&lt;xs:element name="administrativeArea" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The administrativeArea contains the name of the state, province or     other administrative area. This element is optional.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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 diagram shows the <code>postalCode</code> element (Type: textField) connected to a custom data type definition for a 0-255 character string text field. A callout box explains that the element contains the Zip code or other postal code for the address and is optional.</p>
Type	textField
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<pre>&lt;xs:element name="postalCode" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The postalCode element contains the Zip code or other postal code     for the address. This element is optional.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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 diagram shows the <code>country</code> element (Type: textField) connected to a custom data type definition for a 0-255 character string text field. A callout box explains that the element contains the name of the country in which the person resides and is optional.</p>
Type	textField
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<pre>&lt;xs:element name="country" type="textField" minOccurs="0" maxOccurs="1"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The country element contains the name of the country in which the     person resides. This element is optional.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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	 <p>The diagram shows the <code>phone</code> element (Type: textField) connected to a custom data type definition for a 0-255 character string text field. A callout box explains that the element contains a voice phone or pager number at which the person can be reached and is optional.</p>

Type	textField
Properties	content: simple
	minOccurs: 0
	maxOccurs: unbounded
Source	<pre>&lt;xs:element name="phone" type="textField" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</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>&lt;xs:element name="fax" type="textField" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

## Element `personnel / person / contactInfoList / contactInfo / email`

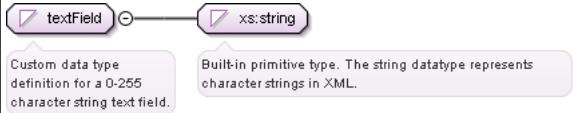
Annotations	The email element contains additional electronic mail addresses that can be used to contact the perosn. This is an optional element that can be repeated as many times as appropriate.
Diagram	
Type	emailAddress
Properties	content: simple
	minOccurs: 0
	maxOccurs: unbounded
Source	<pre>&lt;xs:element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

## Simple Type(s)

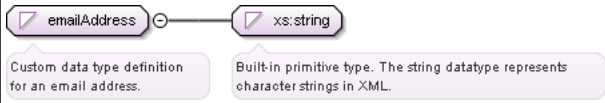
### Simple Type `textField`

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

## Simple Type emailAddress

Annotations	Custom data type definition for an email address.
Diagram	
Type	restriction of xs:string
Used by	<p>Elements</p> <p>personnel/person/contactInfoList/contactInfo/email, personnel/person/identity/primaryEmail</p>
Source	<pre>&lt;xs:simpleType name="emailAddress"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Custom data type definition for an email address.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:pattern value="^[^@]+@[^\.]+\.\.+" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

## Attribute(s)

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

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	<p>Element</p> <p>personnel/person/roleList/role</p>
Source	<pre>&lt;xs:attribute name="type" use="required"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;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.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="nsf"/&gt;       &lt;xs:enumeration value="local"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>