# Schema documentation for Iter-personnelDB.xsd

february 25, 2011

# **Table of Contents**

t(s)	
Element personnel	
Element personnel	person
Element personnel	person / personID
Element personnel	person / identity
Element personnel	person / identity / prefix
Element personnel	person / identity / firstName
	person / identity / middleName
Element personnel	person / identity / lastName
	person / identity / suffix
	person / identity / preferredName
	person / identity / title
	person / identity / primaryEmail
	person / identity / optOut
	person / identity / nameAlias
	person / roleList
Element personnel	person / roleList / role
	person / roleList / role / roleID
	person / roleList / role / roleType
	person / roleList / role / siteAcronym
	person / roleList / role / beginDate
	person / roleList / role / endDate
Element personnel	person / roleList / role / isActive
	person / contactInfoList
	person / contactInfoList / contactInfo
	person / contactInfoList / contactInfo / contactInfoID
	person / contactInfoList / contactInfo / label
	person / contactInfoList / contactInfo / isPrimary
	person / contactInfoList / contactInfo / beginDate
	person / contactInfoList / contactInfo / endDate
	person / contactInfoList / contactInfo / isActive
	person / contactInfoList / contactInfo / address
	person / contactInfoList / contactInfo / institution
	person / contactInfoList / contactInfo / city
	person / contactInfoList / contactInfo / administrativeArea
	person / contactInfoList / contactInfo / postalCode
	person / contactInfoList / contactInfo / country
	person / contactInfoList / contactInfo / phone
	person / contactInfoList / contactInfo / fax
	person / contactInfoList / contactInfo / email
	d
	ress

# 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	attribute form default: unqualified

element form default: unqualified

# Element(s)

# Element personnel

Annotations	This is the root element of an lter-personnelDB document.	
Diagram	personnel 🔾 1 🕳 person 🟵	
	This is the root element contains the database identifier, identity information, roles and contact information for ter-personneIDB document.	
Properties	content: complex	
Model	person+	
Children	person	
Instance	<pre><personnel>   <person>{1,unbounded}</person>   </personnel></pre>	
Source	<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	
	<pre></pre>	

```
<xs:element name="lastName" type="textField" minOccurs="1"</pre>
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"</pre>
maxOccurs="1">
                      <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"</pre>
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>
                  </r></ra>
                  <xs:element name="optOut" type="xs:boolean" minOccurs="1" maxOccurs="1"</pre>
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"</pre>
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>
                    </r></r></r></r>
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="roleID" minOccurs="1" maxOccurs="1">
                          <xs:annotation>
                            <xs:documentation>The roleID element contains an unsigned
integer representing the personnel database ID of the role record for a person. This is a
required element that cannot be repeated. For new roles to be added to the database, use
a roleID of 0.</xs:documentation>
                          </xs:annotation>
```

```
<xs:simpleType>
                            <xs:restriction base="xs:integer">
                              <xs:minInclusive value="0"/>
                            </xs:restriction>
                          </xs:simpleType>
                        </xs:element>
                        <xs:element name="roleType" minOccurs="1" maxOccurs="1">
                          <xs:annotation>
                            <xs:documentation>The roleType element contains a role type
from a controlled vocabularly of NSF roles or local roles defined in the LTER Personnel
Database. This is a required element that cannot be repeated.</xs:documentation>
                          </xs:annotation>
                          <xs:complexType>
                            <xs:simpleContent>
                              <xs:extension base="textField">
                                <xs:attribute name="type" use="required">
                                  <xs:annotation>
                                    <xs:documentation>The type attribute specifies
the type or scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles
and "local" for site-defined and network-wide roles in the Personnel Database.</
xs:documentation>
                                  </xs:annotation>
                                  <xs:simpleType>
                                    <xs:restriction base="xs:string">
                                      <xs:enumeration value="nsf"/>
                                      <xs:enumeration value="local"/>
                                    </xs:restriction>
                                  </xs:simpleType>
                                </xs:attribute>
                              </xs:extension>
                            </xs:simpleContent>
                          </xs:complexType>
                        </xs:element>
                        <xs:element name="siteAcronym" minOccurs="1" maxOccurs="1">
                          <xs:annotation>
                            <xs:documentation>The siteAcronym element contains a 3-letter
acronym specifying the LTER site at which the person holds this role. For network-wide
roles not associated with a specific site, use the siteAcronym NWK. This is a required
element that cannot be repeated.</xs:documentation>
                          </xs:annotation>
                          <xs:simpleType>
                            <xs:restriction base="xs:string">
                              <xs:length value="3"/>
                            </xs:restriction>
                          </xs:simpleType>
                        </r></ra>
                        <xs:element name="beginDate" type="xs:date" minOccurs="0"</pre>
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 name="endDate" type="xs:date" minOccurs="0"</pre>
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 name="isActive" type="xs:boolean" minOccurs="1"</pre>
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>
                          </r></r></re></re></re>
                        </xs:element>
                     </xs:sequence>
                   </xs:complexType>
                 </xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="contactInfoList" minOccurs="0" maxOccurs="1">
              <xs:annotation>
```

```
<xs:documentation>The contactInfoList element contains one or more sets of
contact information for the person. This element is optional, but if included cannot be
repeated and must include at least one contactInfo element.</xs:documentation>
              </xs:annotation>
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded">
                    <xs:annotation>
                      <xs:documentation>The contactInfo element contains one set of
contact information for the person, including a descriptive label element and isPrimary
boolean element specifying which set of contact information should be used for official
LTER communication.</xs:documentation>
                   </xs:annotation>
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="contactInfoID">
                          <xs:annotation>
                            <xs:documentation>The contactInfoID element contains an
unsigned integer representing the LTER Personnel Database ID of the contact information
record. This is a required element. For new sets of contact information, specify 0 for
contactInfoID.</xs:documentation>
                          </xs:annotation>
                          <xs:simpleType>
                            <xs:restriction base="xs:integer">
                              <xs:minInclusive value="0"/>
                            </xs:restriction>
                          </xs:simpleType>
                        </xs:element>
                        <xs:element name="label" type="textField" minOccurs="1"</pre>
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"</pre>
maxOccurs="1">
                          <xs:annotation>
                            <xs:documentation>The isPrimary element contains a boolean
value specifying whether the contact information represents the primary address of the
person for official LTER communication. Possible values are true, false, 1 (i.e. true)
and 0 (i.e. false). This is a required element.</xs:documentation>
                         </xs:annotation>
                        </xs:element>
                       <xs:element name="beginDate" type="xs:date" minOccurs="0"</pre>
maxOccurs="1">
                          <xs:annotation>
                            <xs:documentation>The beginDate element contains the beginning
date for the respective contact information. This element is optional but highly
recommended when known.</xs:documentation>
                          </xs:annotation>
                        </r></r></r></r>
                       <xs:element name="endDate" type="xs:date" minOccurs="0"</pre>
maxOccurs="1">
                         <xs:annotation>
                            <xs:documentation>The endDate element contains the ending date
for the respective contact information. This element is optional but highly recommended
when known, and should agree with the value of the isActive element value (i.e. endDate
in the past when isActive = false, endDate empty or in the future when isActive =
true).</xs:documentation>
                          </xs:annotation>
                        </re>
                        <xs:element name="isActive" type="xs:boolean" minOccurs="1"</pre>
maxOccurs="1">
                          <xs:annotation>
                           <xs:documentation>The isActive element contains a boolean
value indicating whether or not the contact information is currently active. Possible
values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</
xs:documentation>
                         </xs:annotation>
                        </xs:element>
                        <xs:element name="address" type="textField" minOccurs="0"</pre>
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 name="institution" type="textField" minOccurs="0"</pre>
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"</pre>
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"</pre>
minOccurs="0" maxOccurs="1">
                          <xs:annotation>
                            <xs:documentation>The administativeArea contains the
name of the state, province or other adminstrative area. This element is optional.</
xs:documentation>
                          </xs:annotation>
                        </xs:element>
                        <xs:element name="postalCode" type="textField" minOccurs="0"</pre>
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"</pre>
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"</pre>
maxOccurs="unbounded">
                            <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"</pre>
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 name="email" type="emailAddress" minOccurs="0"</pre>
maxOccurs="unbounded">
                          <xs:annotation>
                            <xs:documentation>The email element contains additional
electronic mail addresses that can be used to contact the perosn. This is an optional
element that can be repeated as many times as appropriate.</xs:documentation>
                          </xs:annotation>
                        </xs:element>
                      </xs:sequence>
                    </xs:complexType>
                  </xs:element>
                </xs:sequence>
             </xs:complexType>
           </xs:element>
         </xs:sequence>
       </xs:complexType>
     </r></r></r></r>
   </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
                                                      personID
                                                      Type restriction of 'xs:integer'
                                                     The personID element contains an unsigned integer representing the database identifier for a personnel record in the...
                                                      identity 🕀
                                                     The identity element includes the primary identification information for an individual, including name, title and...
                                           <mark>⊕</mark>)⊙
                           (person)⊙
                           The person
                                                      roleList 🕀
                            contains the
                           database
identifier,
                                                      The roleList element contains descriptions of LTER
                                                      Network roles held by the person at one or more LTER sites. This...
                           identifier,
identity
information,
                            roles and
                                                      contactInfoList ⊕
                           contact
                           information for
                                                     The contactInfoList element contains one or more sets of contact information for the person. This element is optional,...
Properties
                           content:
                                                 complex
                           minOccurs:
                                                 1
                           maxOccurs:
                                                 unbounded
Model
                           personID , identity \{0,1\} , roleList \{0,1\} , contactInfoList \{0,1\}
Children
                           contactInfoList, identity, personID, roleList
Instance
                           <person>
                             <personID>{1,1}</personID>
                             <identity>{0,1}</identity>
                             <roleList>{0,1}</roleList>
                              <contactInfoList>{0,1}</contactInfoList>
                            </person>
Source
                           <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.
</rs>:documentation>
                                     </xs:annotation>
                                     <xs:simpleType>
                                       <xs:restriction base="xs:integer">
                                         <xs:minInclusive value="0"/>
                                       </xs:restriction>
                                     </xs:simpleType>
                                  </r></r></r></r>
                                  <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.
</r></re>clocumentation>
                                     </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: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"</pre>
 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"</pre>
 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>
            </re>
            <xs:element name="nameAlias" type="textField" minOccurs="0"</pre>
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" minOccurs="1" maxOccurs="1">
                     <xs:documentation>The roleType element contains a role type from
a controlled vocabularly of NSF roles or local roles defined in the LTER Personnel
Database. This is a required element that cannot be repeated.</xs:documentation>
                   </xs:annotation>
                   <xs:complexType>
                     <xs:simpleContent>
                       <xs:extension base="textField">
                         <xs:attribute name="type" use="required">
                           <xs:annotation>
                             <xs:documentation>The type attribute specifies the type or
scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for
site-defined and network-wide roles in the Personnel Database.</xs:documentation>
                           </xs:annotation>
                           <xs:simpleType>
                             <xs:restriction base="xs:string">
                               <xs:enumeration value="nsf"/</pre>
                               <xs:enumeration value="local"/>
                             </xs:restriction>
                           </xs:simpleType>
                         </xs:attribute>
                       </xs:extension>
                     </xs:simpleContent>
                   </xs:complexType>
                 </xs:element>
                 <xs:element name="siteAcronym" minOccurs="1" maxOccurs="1">
                   <xs:annotation>
                     <xs:documentation>The siteAcronym element contains a 3-letter
acronym specifying the LTER site at which the person holds this role. For network-wide
roles not associated with a specific site, use the siteAcronym NWK. This is a required
element that cannot be repeated.</xs:documentation>
                   </xs:annotation>
                   <xs:simpleType>
                     <xs:restriction base="xs:string">
                       <xs:length value="3"/>
                     </xs:restriction>
                   </xs:simpleType>
                 </xs:element>
                 <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
                   <xs:annotation>
                     < xs: documentation> The beginDate element contains the beginning
date of the person's participation in the role. This element is optional but highly
recommended when known.</xs:documentation>
                   </xs:annotation>
                 </xs:element>
                 <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
                   <xs:annotation>
                     <xs:documentation>The endDate element contains the ending date of
the person's participation in the role. This element is optional but highly recommended
when known, and should agree with the value of the isActive element value (i.e. endDate
in the past when isActive = false, endDate empty or in the future when isActive =
true).</xs:documentation>
                   </xs:annotation>
                 </xs:element>
                 <xs:element name="isActive" type="xs:boolean" minOccurs="1"</pre>
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>
                 </r></r></r></r>
               </xs:sequence>
             </xs:complexType>
           </xs:element>
         </xs:sequence>
       </xs:complexType>
     </xs:element>
     <xs:element name="contactInfoList" minOccurs="0" maxOccurs="1">
       <xs:annotation>
         <xs:documentation>The contactInfoList element contains one or more sets of
contact information for the person. This element is optional, but if included cannot be
repeated and must include at least one contactInfo element.</xs:documentation>
       </xs:annotation>
       <xs:complexType>
```

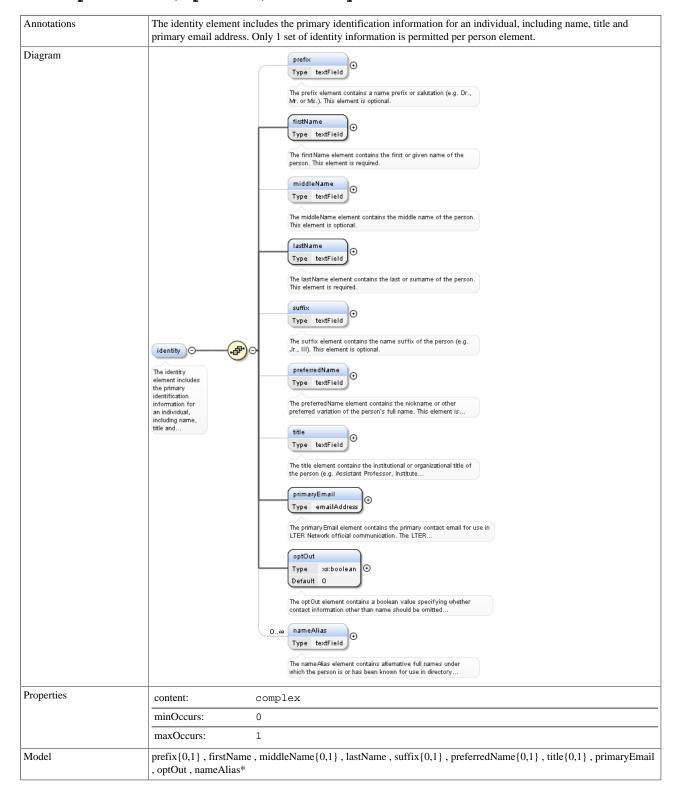
```
<xs:sequence>
            <xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded">
              <xs:annotation>
                <xs:documentation>The contactInfo element contains one set of contact
 information for the person, including a descriptive label element and isPrimary boolean
 element specifying which set of contact information should be used for official LTER
 communication.</xs:documentation>
              </xs:annotation>
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="contactInfoID">
                    <xs:annotation>
                      <xs:documentation>The contactInfoID element contains an unsigned
 integer representing the LTER Personnel Database ID of the contact information
 record. This is a required element. For new sets of contact information, specify 0 for
 contactInfoID.</xs:documentation>
                    </xs:annotation>
                    <xs:simpleType>
                      <xs:restriction base="xs:integer">
                        <xs:minInclusive value="0"/>
                      </xs:restriction>
                    </xs:simpleType>
                  </xs:element>
                  <xs:element name="label" type="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"</pre>
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 \mathbf{0}
 (i.e. false). This is a required element.</xs:documentation>
                    </xs:annotation>
                  </xs:element>
                  <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
                    <xs:annotation>
                      <xs:documentation>The beginDate element contains the beginning date
 for the respective contact information. This element is optional but highly recommended
 when known.</xs:documentation>
                    </xs:annotation>
                  </xs:element>
                  <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
                    <xs:annotation>
                      <xs:documentation>The endDate element contains the ending date for
 the respective contact information. This element is optional but highly recommended when
known, and should agree with the value of the isActive element value (i.e. endDate in
the past when isActive = false, endDate empty or in the future when isActive = true).</
xs:documentation>
                    </xs:annotation>
                  </xs:element>
                  <xs:element name="isActive" type="xs:boolean" minOccurs="1"</pre>
 maxOccurs="1">
                    <xs:annotation>
                      <xs:documentation>The isActive element contains a boolean value
indicating whether or not the contact information is currently active. Possible values
are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</
xs:documentation>
                    </r></r></r>
                  </xs:element>
                  <xs:element name="address" type="textField" minOccurs="0"</pre>
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>
                    </r></r></r></r>
                  </xs:element>
                  <xs:element name="institution" type="textField" minOccurs="0"</pre>
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: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"</pre>
maxOccurs="1">
                    <xs:annotation>
                      <xs:documentation>The administativeArea contains the name of the
state, province or other adminstrative area. This element is optional.</xs:documentation>
                    </xs:annotation>
                  </xs:element>
                  <xs:element name="postalCode" type="textField" minOccurs="0"</pre>
maxOccurs="1">
                      <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"</pre>
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"</pre>
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"</pre>
maxOccurs="unbounded">
                    <xs:annotation>
                     \verb| < xs: documentation> The email element contains additional electronic | \\
mail addresses that can be used to contact the perosn. This is an optional element that
can be repeated as many times as appropriate.</xs:documentation>
                   </xs:annotation>
                  </xs:element>
                </xs:sequence>
              </xs:complexType>
           </xs:element>
         </xs:sequence>
       </xs:complexType>
     </xs:element>
   </xs:sequence>
 </xs:complexType>
</xs:element>
```

#### Element personnel / person / personID

Annotations	LTER Database. T	nent contains an unsigned integer representing the database identifier for a personnel record in the his is a required element. When preparing data for submission specify a value of 0 to indicate a zero entry to indicate an existing entry to update.	
Diagram	personID  Type restriction of 'xs:i  The personID element containteger representing the data a personnel record in the	ins an unsigned	
Туре	restriction of xs:int	restriction of xs:integer	
Properties	content:	simple	
	minOccurs:	1	
	maxOccurs:	1	
Source	<pre><xs:element <xs:annotation<="" nar="" pre=""></xs:element></pre>	me="personID" minOccurs="1" maxOccurs="1"> n>	

### Element personnel / person / identity



```
Children
                       firstName, lastName, middleName, nameAlias, optOut, preferredName, prefix, primaryEmail, suffix, title
                       <identity>
Instance
                         <prefix>{0,1}</prefix>
                         <firstName>{1,1}</firstName>
                         <middleName>{0,1}</middleName>
                         <lastName>{1,1}</lastName>
                         <suffix>{0,1}</suffix>
                         <preferredName>{0,1}</preferredName>
                         <title>{0,1}</title>
                         cprimaryEmail>{1,1}</primaryEmail>
                         <optOut>{1,1}</optOut>
                         <nameAlias>{0,unbounded}/nameAlias>
                       </identity>
                       <xs:element name="identity" minOccurs="0" maxOccurs="1">
Source
                         <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: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">
```

#### 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	prefix  Type textField  The prefix element contains a name prefix or salutation (e.g. Dr., Mr. or Ms.). This element is optional.  Custom data type definition for a 0-255 character string text field.	
Type	textField	
Properties	content: simple	
	minOccurs: 0	
	maxOccurs: 1	
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="prefix" type="textField"></xs:element></pre>	

#### Element personnel / person / identity / firstName

Annotations	The firstName element contains the first or given name of the person. This element is required.	
Diagram	Type textField   The first Name element contains the first or given name of the person. This element is required.  Custom data type definition for a 0-256 character string text field.	
Type	textField	
Properties	content: simple	
	minOccurs: 1	
	maxOccurs: 1	
Source	<pre><xs:element maxoccurs="1" minoccurs="1" name="firstName" type="textField">     <xs:annotation>     <xs:documentation>The firstName element contains the first or given name of the     person. This element is required.</xs:documentation>     </xs:annotation>     </xs:element></pre>	

#### Element personnel / person / identity / middleName

Annotations	The middleName element contains the middle name of the person. This element is optional.	
Diagram	middleName Type textField  The middleName element contains the middle name of the person. This element is optional.  Custom data type definition for a 0-266 character string text field.	
Туре	textField	
Properties	content: simple	
	minOccurs: 0	
	maxOccurs: 1	
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="middleName" type="textField"></xs:element></pre>	

<xs:annotation>
 <xs:documentation>The middleName element contains the middle name of the person. This
element is optional.</xs:documentation>
 </xs:annotation>
 </xs:element>

#### Element personnel / person / identity / lastName

Annotations	The lastName element contains the last or surname of the person. This element is required.	
Diagram	Type textField    The last Name element contains the last or sumame of the person. This element is required.  Custom data type definition for a 0-255 character string text field.	
Type	textField	
Properties	content: simple	
	minOccurs: 1	
	maxOccurs: 1	
Source	<pre><xs:element maxoccurs="1" minoccurs="1" name="lastName" type="textField"></xs:element></pre>	

#### Element personnel / person / identity / suffix

Annotations	The suffix element contains the name suffix of the person (e.g. Jr., III). This element is optional.	
Diagram	Type textField  The suffix element contains the name suffix of the person (e.g. Jr., III). This element is optional.  Custom data type definition for a 0-256 character string text field.	
Туре	textField	
Properties	content: simple	
	minOccurs: 0	
	maxOccurs: 1	
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="suffix" type="textField">   <xs:annotation></xs:annotation></xs:element></pre>	

# Element personnel / person / identity / preferredName

Annotations	The preferredName is optional.	element contains the nickname or other preferred variation of the person's full name. This element
Diagram	Type textField  The preferredName element contains the nickname or other preferred variation of the person's full name. This element is	Custom data type definition for a 0-256 character string text field.
Туре	textField	
Properties	content:	simple
	minOccurs:	0
	maxOccurs:	1
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="preferredName" type="textField"></xs:element></pre>	

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

#### 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	title Type textField  The title element contains the institutional or organizational title of the person (e.g. Assistant Professor, Institute	textField   Custom data type definition for a 0-256 character string text field.
Туре	textField	
Properties	content:	simple
	minOccurs:	0
	maxOccurs:	1
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="title" type="textField"></xs:element></pre>	

# Element personnel / person / identity / primaryEmail

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

# Element personnel / person / identity / optOut

Annotations	The optOut element contains a boolean value specifying whether contact information other than name should be omitted from the personnel directory list on the LTER web site. Acceptable values are true, false, 1 (i.e. true) and 0 (i.e. false). This is a required element with a default value of 0 (false).			
Diagram	optOut Type xs:boolean Default 0  The optOut element contains a boolean value specifying whether contact information other than name should be omitted	Built-in primitive type. It defines the boolean values true and false.		
Туре	xs:boolean			
Properties	content:	simple		
	minOccurs:	1		
	maxOccurs:	1		

	default: 0
Source	<pre><xs:element default="0" maxoccurs="1" minoccurs="1" name="optOut" type="xs:boolean"></xs:element></pre>

# Element personnel / person / identity / nameAlias

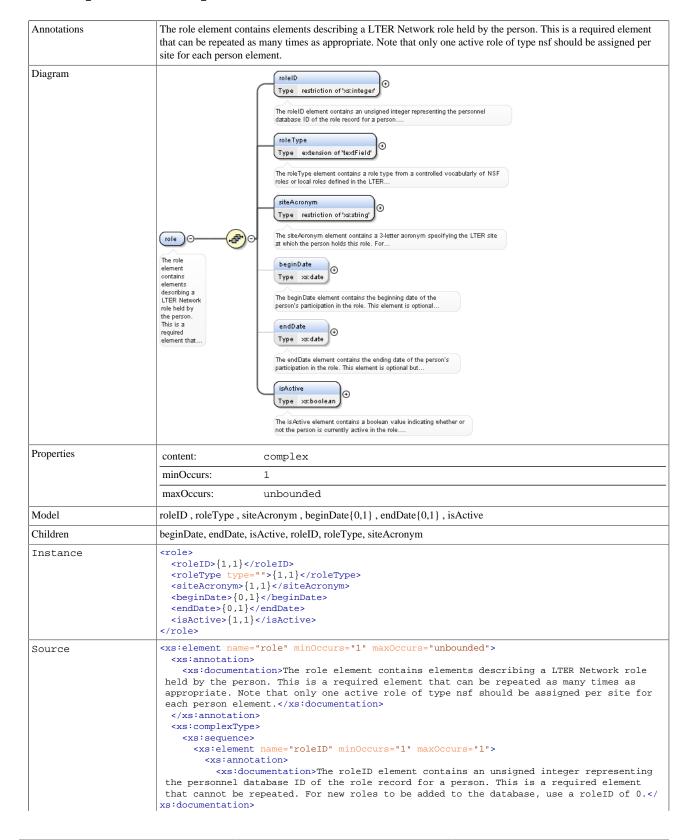
Annotations	The nameAlias element contains alternative full names under which the person is or has been known for use in directory searches (e.g. name prior to marriage, divorce or name change). This is an optional element and it can be repeated as necessary.			
Diagram	nameAlias  Type textField  The nameAlias element contains alternative full names under which the person is or has been known for use in directory	Custom data type definition for a 0-266 character string text field.		
Type	textField			
Properties	content:	simple		
	minOccurs:	0		
	maxOccurs:	unbounded		
Source	<pre><xs:annotation>   <xs:documenta divord="" is="" marriage,="" necessary.<="" or="" person="" pre="" the=""></xs:documenta></xs:annotation></pre>	<pre><xs:element maxoccurs="unbounded" minoccurs="0" name="nameAlias" type="textField"></xs:element></pre>		

# Element personnel / person / roleList

Annotations	The roleList element contains descriptions of LTER Network roles held by the person at one or more LTER sites. This element is optional, but it cannot be repeated more than once and if used then it must include one or more role elements.				
Diagram	The role List element contains element contains element describing a LTER Network role held by the person. This is a required element that  This				
Properties	content: complex				
	minOccurs: 0				
	maxOccurs: 1				
Model	role+				
Children	role				
Instance	<rolelist> <role>{1,unbounded}</role> </rolelist>				
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="roleList"></xs:element></pre>				

```
<xs:documentation>The role element contains elements describing a LTER Network
 role held by the person. This is a required element that can be repeated as many times as
 appropriate. Note that only one active role of type nsf should be assigned per site for
 each person element.</xs:documentation>
        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
            <xs:element name="roleID" minOccurs="1" maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The roleID element contains an unsigned integer
 representing the personnel database ID of the role record for a person. This is a
 required element that cannot be repeated. For new roles to be added to the database, use
 a roleID of 0.</xs:documentation>
              </xs:annotation>
              <xs:simpleType>
                <xs:restriction base="xs:integer">
                  <xs:minInclusive value="0"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:element>
            <xs:element name="roleType" minOccurs="1" maxOccurs="1">
              <xs:annotation>
                <xs:documentation>The roleType element contains a role type from a
 controlled vocabularly of NSF roles or local roles defined in the LTER Personnel
 Database. This is a required element that cannot be repeated.</xs:documentation>
              </xs:annotation>
              <xs:complexType>
                <xs:simpleContent>
                  <xs:extension base="textField">
                    <xs:attribute name="type" use="required">
                      <xs:annotation>
                        <xs:documentation>The type attribute specifies the type or scope
of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-
defined and network-wide roles in the Personnel Database.</xs:documentation>
                      </xs:annotation>
                      <xs:simpleType>
                        <xs:restriction base="xs:string">
                          <xs:enumeration value="nsf"/</pre>
                          <xs:enumeration value="local"/>
                        </xs:restriction>
                      </xs:simpleType>
                    </xs:attribute>
                  </xs:extension>
                </xs:simpleContent>
              </xs:complexType>
            </r></ra>
            <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>
              </r></r></r></r>
            </rs: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>
              </r></r></r></r>
            </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>
```

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



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

#### Element personnel / person / roleList / role / roleID

Annotations

The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person. This is a required element that cannot be repeated. For new roles to be added to the database, use a roleID of 0.

Diagram	Type restriction of bs:integer  The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person  The roleID element contains an unsigned integer representing the personnel database ID of the role record for a person
Туре	restriction of xs:integer
Properties	content: simple
	minOccurs: 1
	maxOccurs: 1
Source	<pre><xs:element maxoccurs="1" minoccurs="1" name="roleID"></xs:element></pre>

# Element personnel / person / roleList / role / roleType

Annotations		The roleType element contains a role type from a controlled vocabularly of NSF roles or local roles defined in the LTER Personnel Database. This is a required element that cannot be repeated.					
Diagram	from a controlled vocabularly of N	Custom data type definition for a 0-255 character string text field.					
Туре	extension of textField						
Type hierarchy	xs:string     textField						
Properties	content:	complex					
	minOccurs:	1					
	maxOccurs:	1					
Attributes	QName	Туре	Fixed	Default	Use		
	type	restriction of xs:string			required		
		The type attribute specifies the type or scope of the roleType. Allowed values are "nsf" for pre-defined NSF roles and "local" for site-defined and network-wide roles in the Personnel Database.					
Source	<pre><xs:annotation>   <xs:documentat <="" element="" ns="" of="" required="" vocabularly="" xs:annotation="">   <xs:complextype>   <xs:simplecont <="" <xs:anno="" <xs:attrib="" <xs:extensio="" allowed="" and="" network-wide="" pre="" roletype.="" xs:anno<=""></xs:simplecont></xs:complextype></xs:documentat></xs:annotation></pre>	<pre><xs:element maxoccurs="1" minoccurs="1" name="roleType"></xs:element></pre>					

### Element personnel / person / roleList / role / siteAcronym

Annotations	The siteAcronym element contains a 3-letter acronym specifying the LTER site at which the person holds this role. For network-wide roles not associated with a specific site, use the siteAcronym NWK. This is a required element that cannot be repeated.		
Diagram	siteAcronym Type restriction of 'xs:string'  The siteAcronym element contains a 3-letter acronym specifying the LTER site at which the person holds this role. For		
Type	restriction of xs:string		
Properties	content: simple		
	minOccurs: 1		
	maxOccurs: 1		
Source	<pre>   <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre> </pre> </pre> </pre> <pre>  <pre>  <pre>  <pre>  <pre>  <pre>    <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>  <pre>    <pre>  <pre>  <pre>  <pre>  <pre>  <pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> </pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></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	beginDate Type vs:date  The beginDate element contains the beginning date of the person's participation in the role. This element is optional  Built-in primitive type. The date datatype represents a calendar date.			
Type	xs:date			
Properties	content: simple			
	minOccurs: 0			
	maxOccurs: 1			
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="beginDate" type="xs:date"></xs:element></pre>			

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

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	endDate Type xs:date  The endDate element contains the ending date of the person's participation in the role. This element is optional but  Built-in primitive type. The date datatype represents a calendar date.		
Туре	xs:date		
Properties	content: simple minOccurs: 0		
	maxOccurs: 1		
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="endDate" type="xs:date"></xs:element></pre>		

# Element personnel / person / roleList / role / isActive

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

# Element personnel / person / contactInfoList

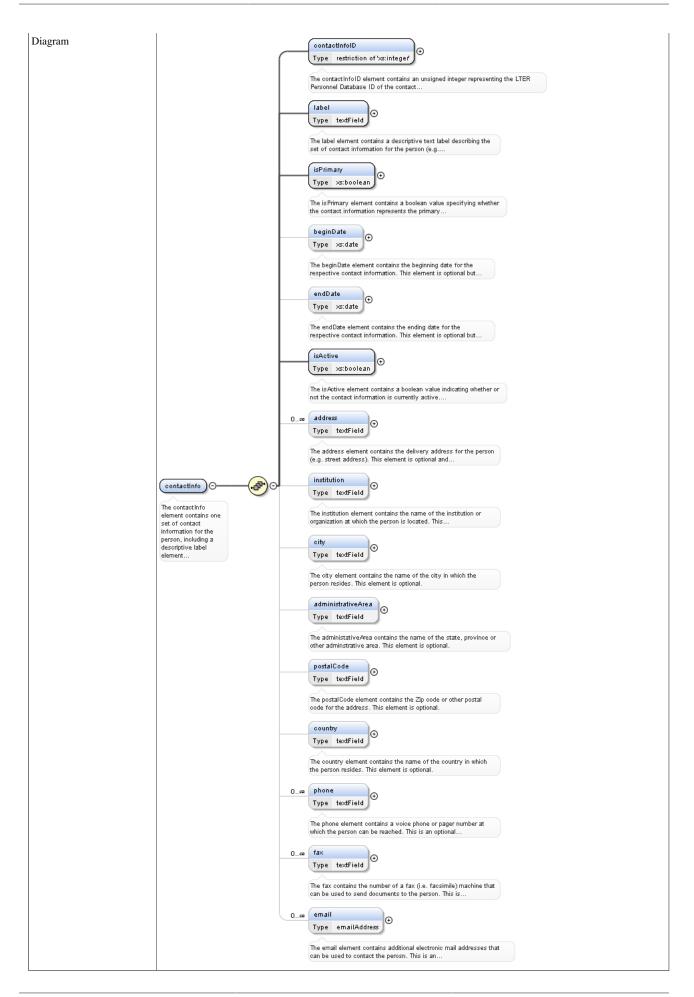
Annotations			ns one or more sets of contact information and must include at least one contactInfo	
Diagram	The contactInfoList element contains one or more sets of contact information for the person. This element is optional,		contactinfo  The contactinfo element contains one set of contact information for the person, including a descriptive label element	
Properties	content:	complex		
	minOccurs:	0		
	maxOccurs:	1		
Model	contactInfo+			
Children	contactInfo			
Instance	<contactinfolis< td=""><td>st&gt;</td><td></td><td></td></contactinfolis<>	st>		

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



```
Properties
                                     content:
                                                                   complex
                                                                   1
                                     minOccurs:
                                     maxOccurs:
                                                                   unbounded
                                     contactInfoID \ , label \ , is Primary \ , beginDate\{0,1\} \ , endDate\{0,1\} \ , is Active \ , address* \ , institution\{0,1\} \ , city\{0,1\} \ , contactInfoID \ , label \ , is Primary \ , beginDate\{0,1\} \ , endDate\{0,1\} \ , is Active \ , address* \ , institution\{0,1\} \ , city\{0,1\} \ , label \ , la
Model
                                     administrative Area\{0,1\} \ , postal Code\{0,1\} \ , country\{0,1\} \ , phone^* \ , fax^* \ , email^*
Children
                                     address, administrativeArea, beginDate, city, contactInfoID, country, email, endDate, fax, institution, isActive,
                                     isPrimary, label, phone, postalCode
Instance
                                     <contactInfo>
                                        <contactInfoID>{1,1}</contactInfoID>
                                        <label>{1,1}</label>
                                        <isPrimary>{1,1}</isPrimary>
                                        <beginDate>{0,1}</beginDate>
                                        <endDate>{0,1}</endDate>
                                        <isActive>{1,1}</isActive>
                                        <address>{0,unbounded}</address>
                                        <institution>{0,1}</institution>
                                        <city>{0,1}</city>
                                        <administrativeArea>{0,1}</administrativeArea>
                                        <postalCode>{0,1}</postalCode>
                                        <country>{0,1}</country>
                                        <phone>{0,unbounded}</phone>
                                        <fax>{0,unbounded}</fax>
                                        <email>{0,unbounded}</email>
                                      </contactInfo>
                                     <xs:element name="contactInfo" minOccurs="1" maxOccurs="unbounded">
Source
                                        <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>
                                               </re>
                                               <xs:element name="label" type="textField" minOccurs="1" maxOccurs="1">
                                                  <xs:annotation>
                                                     <xs:documentation>The label element contains a descriptive text label describing
                                      the set of contact information for the person (e.g. Primary institutional contact
                                      information, Field station address during the summer). This label is intended to convey
                                      information to end-users of the LTER directory regarding which contact information
                                      is appropriate to use under different circumstances. This is a required element.</
                                     xs:documentation>
                                                  </xs:annotation>
                                               </xs:element>
                                               <xs:element name="isPrimary" type="xs:boolean" minOccurs="1" maxOccurs="1">
                                                  <xs:annotation>
                                                     <xs:documentation>The isPrimary element contains a boolean value specifying
                                      whether the contact information represents the primary address of the person for official
                                      LTER communication. Possible values are true, false, 1 (i.e. true) and 0 (i.e. false).
                                      This is a required element.</xs:documentation>
                                                 </xs:annotation>
                                               </xs:element>
                                               <xs:element name="beginDate" type="xs:date" minOccurs="0" maxOccurs="1">
                                                  <xs:annotation>
                                                     <xs:documentation>The beginDate element contains the beginning date for the
                                      respective contact information. This element is optional but highly recommended when
                                      known.</xs:documentation>
                                                  </xs:annotation>
                                               </xs:element>
                                               <xs:element name="endDate" type="xs:date" minOccurs="0" maxOccurs="1">
                                                  <xs:annotation>
                                                     <xs:documentation>The endDate element contains the ending date for the
                                      respective contact information. This element is optional but highly recommended when
                                      known, and should agree with the value of the isActive element value (i.e. endDate in
                                      the past when isActive = false, endDate empty or in the future when isActive = true).</
                                     xs:documentation>
```

```
</xs:annotation>
      </xs:element>
      <xs:element name="isActive" type="xs:boolean" minOccurs="1" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>The isActive element contains a boolean value indicating
 whether or not the contact information is currently active. Possible values are true
 false, 1 (i.e. true) and 0 (i.e. false). This is a required element.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="address" type="textField" minOccurs="0" maxOccurs="unbounded">
       <xs:annotation>
          <xs:documentation>The address element contains the delivery address for the
person (e.g. street address). This element is optional and can be repeated for multiple
 address lines.</xs:documentation>
        </xs:annotation>
      <xs:element name="institution" type="textField" minOccurs="0" maxOccurs="1">
          <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: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 administativeArea contains the name of the state, province
 or other adminstrative 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>
      </rs: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>
      </re>
    </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.



### 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	The label element contains a descriptive text label describing the set of contact information for the person (e.g		
Type	textField		
Properties	content: simple		
	minOccurs: 1		
	maxOccurs: 1		
Source	<pre><xs:element maxoccurs="1" minoccurs="1" name="label" type="textField">     <xs:annotation></xs:annotation></xs:element></pre>		

# Element personnel / person / contactInfoList / contactInfo / isPrimary

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

# Element personnel / person / contactInfoList / contactInfo / beginDate

Annotations	The beginDate element contains the beginning date for the respective contact information. This element is optional but highly recommended when known.	
Diagram	beginDate Type vs:date  The beginDate element contains the beginning date for the respective contact information. This element is optional but  Built-in primitive type. The date datatype represents a calendar date.	
Туре	xs:date	
Properties	content: simple	
	minOccurs: 0	
	maxOccurs: 1	
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="beginDate" type="xs:date"></xs:element></pre>	

#### Element personnel / person / contactInfoList / contactInfo / endDate

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

# Element personnel / person / contactInfoList / contactInfo / isActive

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

Diagram	Type xs:boolean  Built-in primitive type. It defines the boolean values true and false.  Built-in primitive type. It defines the boolean values true and false.  Built-in primitive type. It defines the boolean values true and false.	
Type	xs:boolean	
Properties	content: simple	
	minOccurs: 1	
	maxOccurs: 1	
Source	<pre><xs:element maxoccurs="1" minoccurs="1" name="isActive" type="xs:boolean"></xs:element></pre>	

# Element personnel / person / contactInfoList / contactInfo / address

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

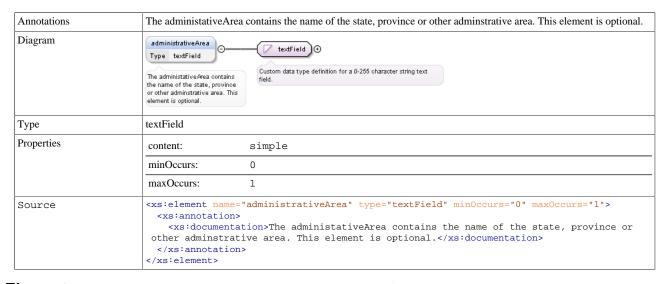
# Element personnel / person / contactInfoList / contactInfo / institution

Annotations	The institution element contains the name of the institution or organization at which the person is located. This element is optional.	
Diagram	Institution Type textField  The institution element contains the name of the institution or organization at which the person is located. This	Custom data type definition for a 0-266 character string text field.
Type	textField	
Properties	content:	simple
	minOccurs:	0
	maxOccurs:	1
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="institution" type="textField"></xs:element></pre>	

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

Annotations	The city element contain	The city element contains the name of the city in which the person resides. This element is optional.	
Diagram		textField    Custom data type definition for a 0-255 character string text ledd.	
Туре	textField		
Properties	content:	simple	
	minOccurs:	0	
	maxOccurs:	1	
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="city" type="textField">     <xs:annotation></xs:annotation></xs:element></pre>		

# Element personnel / person / contactInfoList / contactInfo / administrativeArea



# 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	postalCode Type textField  The postalCode element contains the Zip code or other postal code for the address. This element is optional.  Custom data type definition for a 0-255 character string text field.		
Type	textField		
Properties	content: simple		
	minOccurs: 0		
	maxOccurs: 1		
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="postalCode" type="textField"></xs:element></pre>		

# Element personnel / person / contactInfoList / contactInfo / country

Annotations	The country element contains the name of the country in which the person resides. This element is optional.		
Diagram	Type textField  The country element contains the name of the country in which the person resides. This element is optional.  Custom data type definition for a 0-256 character string text field.		
Type	textField		
Properties	content: simple		
	minOccurs: 0		
	maxOccurs: 1		
Source	<pre><xs:element maxoccurs="1" minoccurs="0" name="country" type="textField">     <xs:annotation></xs:annotation></xs:element></pre>		

#### Element personnel / person / contactInfoList / contactInfo / phone

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

# Element personnel / person / contactInfoList / contactInfo / fax

Annotations		umber of a fax (i.e. facsimile) machine that can be used to send documents to the person. This is at can be repeated as many times as appropriate.
Diagram	fax Type textfield  The fax contains the number of a fax (i.e. facsimile) machine that can be used to send documents to the person. This is	textField   Custom data type definition for a 0-255 character string text field.
Type	textField	
Properties	content:	simple
	minOccurs:	0
	maxOccurs:	unbounded
Source	<pre><xs:element maxoccurs="unbounded" minoccurs="0" name="fax" type="textField"></xs:element></pre>	

</rs>element>

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

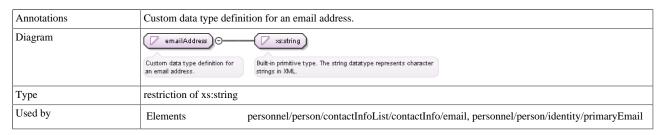
Annotations	The email element contains additional electronic mail addresses that can be used to contact the perosn. This is an optional element that can be repeated as many times as appropriate.	
Diagram	email  Type emailAddress  emailAddress  EmailAddress  Custom data type definition for an email address.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

# Simple Type(s)

# Simple Type textField

Annotations	Custom data type definition for a 0-255 character string text field.	
Diagram	Custom data type definition for a 0-265 character string text field.  Built-in primitive type. The string datatype represents character string text field.	
Type	restriction of xs:string	
Used by	Elements  personnel/person/contactInfoList/contactInfo/address, personnel/person/contactInfoList/ contactInfo/administrativeArea, personnel/person/contactInfoList/contactInfo/city, personnel/person/contactInfoList/contactInfo/country, personnel/person/contactInfoList/ contactInfo/fax, personnel/person/contactInfoList/contactInfo/institution, personnel/person/ contactInfoList/contactInfo/label, personnel/person/contactInfoList/contactInfo/phone, personnel/person/contactInfoList/contactInfo/postalCode, personnel/person/identity/ firstName, personnel/person/identity/lastName, personnel/person/identity/middleName, personnel/person/identity/nameAlias, personnel/person/identity/preferredName, personnel/ person/identity/prefix, personnel/person/identity/suffix, personnel/person/identity/title, personnel/person/roleList/role/roleType	
Source	<pre><xs:simpletype name="textField"></xs:simpletype></pre>	

#### Simple Type emailAddress



# Attribute(s)

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

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