

**Allegato alla domanda di partecipazione**  
**Curriculum formativo, didattico, scientifico e professionale del candidato**

**Dichiarazione sostitutiva di certificazioni**

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

**Dichiarazione sostitutiva dell'atto di notorietà**

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	Prot. n.180866 del 15.09.2020
Informazioni aggiornate al	24/11/2020
Nome e Cognome	Alfredo Idini
Data di nascita	06/11/1982

**Education**

- From 20/04/2017 to 17/07/2020

PhD in Earth and Environmental Sciences and Technologies (EEST), Department of Chemical and Geological Science, University of Cagliari.

Thesis: Study of innovative materials for the removal of high concentrations of fluoride from water for drinking and domestic use

- From 06/10/2014 to 22/07/2016

Master's Degree in Geological Sciences and Technologies, Honours Graduated (110/110 L)

Thesis: Petrographic characterization of Paleozoic rocks of the Asinara Island (SW Sardinia, Italy)

- From 19/09/2011 to 22/07/2014

Bachelor's Degree in Geology Science, graduated 108/110

Thesis: Petrographic characterization of Paleozoic rocks Nurra Region (SW Sardinia, Italy)

Proficiency in the English language: high intermediate level level of the Common European Framework of Languages (B2)

**Awards:**

- Winner of "Gianni Licheri Award 2019", of University of Cagliari, in the field of X-ray analysis.
- Winner of World Water Challenge 2018 (WWCH) that is an international contest for water solutions hosted in the frame of Korea International Water Week.
- Best graduate of the Faculty of Science 2016, University of Cagliari.
- Best graduate of the Faculty of Science 2014, University of Cagliari.

**Scientific publications:**

1. Idini A., Frau F., Gutierrez L., Dore E., Nocella G., Ghiglieri G. (2020). Application of Octacalcium Phosphate with an Innovative Household-scale Defluoridator Prototype and Behavioral Determinants of its Adoption in Rural Communities of the East African Rift Valley. INTEGRATED ENVIRONMENTAL ASSESSMENT AND MANAGEMENT, p. 1-15, ISSN: 1551-3793, doi: 10.1002/ieam.4262 Articolo in rivista, Wiley 06/03/2020
2. Idini A., Dore E., Fancello D., Frau F. (2019). Defluoridation of water through the transformation of octacalcium phosphate into fluorapatite. HELIYON, vol. 5, p. 1-9, ISSN: 2405-8440, doi: 10.1016/j.heliyon.2019.e02288 - Articolo in rivista, Elsevier, 19/08/2019
3. Idini A., Dore E., Fancello D., Ghiglieri G., Frau F. (2018). From octacalcium phosphate (OCP) to fluorapatite, a new method for defluoridation of drinking water. In: Congresso SGI-SIMP "Geosciences for the environment, natural hazard and cultural heritage". Catania, Italia, 12-14 Settembre 2018, doi: 10.3301/ABSGI/2018.02 - Contributo in Atti di convegno

4. Idini A., Fancello D., Angeli C., Frau F (2018). Anomalous birefringence in garnets from SW Sardinia. In: Abstract Book. Catania, Italia, 12-14 Settembre 2018, doi: 10.3301/ABSGI/2018.02 - Contributo in In: Congresso SGI-SIMP "Geosciences for the environment, natural hazard and cultural heritage". Catania, Italia, 12-14 Settembre 2018 Atti di convegno
5. Frau F., Atzori R., Ardau C., Medas D., Podda F., Dore E., Idini A., Tempesta G., Agrosi G. (2020). A two-step pH control method to remove divalent metals from near-neutral mining and metallurgical waste drainages by inducing the formation of layered double hydroxide. JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol. 271, ISSN: 0301-4797, doi: 10.1016/j.jenvman.2020.111043, Elsevier, 01/10/2020
6. Idini Alfredo, Fancello Dario, Frau Franco, Dore Elisabetta, Ghiglieri Giorgio (2019). METODO DI SINTESI DELLA MOLECOLA OTTACALCIO FOSFATO. P3141IT00, Università degli Studi di Cagliari – Brevetto numero deposito P3141IT00 domanda numero 102019000009441

#### **Academic work experience**

- From 10/2017 to 02/2018

Teaching tutor of Mineralogy, Geological Science Course, University of Cagliari.

- From 02/2017 to 05/2017

Teaching tutor of Mineralogy, Natural Science Course, University of Cagliari.

- From 02/2016 to 05/2016

Teaching tutor of Petrography, Geological Science Course, University of Cagliari.

- From 02/2016 to 05/2016

Teaching tutor of Mineralogy, Geological Science Course, University of Cagliari.

- From 09/2015 to 01/2016

Teaching tutor of Cartography, Geological Science Course, University of Cagliari

---

#### **Other academic activities and skills**

- Main Inventor of Patent Application n. 102019000009441 19/06/2019, held by University of Cagliari.
- Expert user of X-ray diffraction (XRD) for mineralogical characterization.
- User of Scanning Electron Microscope (SEM) for mineralogical characterization and chemical analysis.
- Expert user in the preparation of rocks thin sections and in their characterization by optical microscope.

#### **Localities of the most significant geological and mineralogical survey conducted for professional and research purpose:**

- Mererani Hills, tanzanite-graphite-apatite prospect. Arusha District, Tanzania.
- Loliondo cave, garnet-muscovite prospect, Ngorongoro District, Tanzania.
- Furtei gold mine. Municipality of Furtei, Medio Campidano province, Sardinia, Italy.
- Capurru mine, REE- gold-fluorite prospect. Municipality of Osilo, Sassari province, Sardinia, Italy.
- Santa Lucia Mine, barite- fluorite- galena prospect. Municipality of Fluminimaggiore, Cagliari Province, Sardinia, Italy.

- Sinidibraxiu Mine, arsenopyrite- scheelite- tungsten prospect. Municipality of Nuxis, Carbonia Iglesias province, Sardinia, Italy.
- Rio Bacchera mine, barite prospect. Municipality of Nuxis, Carbonia Iglesias province, Sardinia, Italy.
- Monte Gracias Gold Mine LTD, gold-tantalum prospect. Nuflo de Chavez province, Bolivia.
- Asinara Island, garnet and Al-silicate metamorphic complex. Sassari province, Sardinia Italy.