Postdoctoral Position

Research and Development Project related to Water Treatment System for arsenic removal, which is developed in the Advanced Mining Technology Center (AMTC), Universidad de Chile, opens call for a postdoctoral position. Open competition from July 01 to July 31, 2020.

The requirements for postdoc candidates are:

- Bachelor degree in chemistry, physics, chemical engineering or related career.
- PhD degree in Sciences (Chemistry, Chemical Engineering, Materials Science or another career close to the background) obtained in the last 5 years (2015-2020).
- With strong background in:
  - Water treatment for arsenic removal by heterogeneous photocatalysis and/or adsorption processes.
  - Synthesis of photoactive semiconductors and adsorbent materials for removal of aqueous contaminants, mainly arsenic.
  - Characterization of materials by SEM, EDX, TEM, XRD, FTIR, XPS, AFM, UV-VIS-DR, zeta potential, among others techniques.
  - Regeneration techniques for recovery of spent adsorbents.
  - Analytical methods for the determination of water contaminants: HPLC, ICP-MS, AA, Colorimetric methods.
  - Water Quality- environmental measurement system.
- The profile of the candidate must have demonstrable experience in writing and publishing scientific articles (minimum 3 publications in a high impact factor journal, desirable as first author and/or corresponding author) and knowledge in execution and direction of own or led projects.
- Good level of English.

The position is suitable for two years, funding will be 2500 US by month (paid in Chilean pesos, estimated about $1'700.000). The postdoctoral project will be developed in the installations of the Faculty of Physics and Mathematical Science of the University of Chile and the AMTC. The project will also have support in advanced equipment, all chemicals reactive and operation inputs required for its execution. The post-doctorate will be led by Dr. Andreina Garcia, project Director.

For those interested please send CV, contact information and letter of recommendation to: Dr. Andreina Garcia andreina.garcia@amtc.cl. The results will be notified via email on August 20, 2020.