

**UNIVERSITY OF L'AQUILA
CENTRAL ADMINISTRATION
HUMAN RESOURCES DEPARTMENT
Public Announcements and Selections Office**

**ANNOUNCEMENT
(ENGLISH SUMMARY)**

DECREE OF THE RECTOR NO. 16635 - 2015 (G.U. NO. 42A – 05.06.2015)

A public selection procedure for the recruitment of one full-time, three-year researcher position is being held at the University of L'Aquila in compliance with art. 24, comma 3, letter a, of law n. 240, 30th December 2010.

Competition Sector: 05/H2

Scientific Disciplinary Sector BIO/17

Department of Biotechnological and Applied Clinical Sciences

Research Project Title

System biology for function validation of genetic determinants of skeletal diseases.

Summary

System biology for function validation of genetic determinants of skeletal diseases. Generation and deep-phenotyping, using omics-base technologies, of cellular and animal models of rare and common skeletal diseases, validation of model-systems and cutting-edge treatments.

The researcher selected shall be required to carry out the following:

Research:

The researcher selected will be required to carry out research concerning the study of rare and common skeletal diseases within a coordinated project framework aiming at understanding new pathogenic mechanisms involving specific genetic variations. New animal models of the disease shall be studied together with new biomarkers and innovative therapy targets. Large scale analysing techniques for transcriptomic and proteomic determinants shall be developed and deep-phenotyping of cellular and animal models will be carried out. Data obtained shall be integrated within an Omics-Knowledge Factory for the study of System Biology in the sphere of skeletal tissue.

Teaching activities and integrated services for students:

The researcher selected will be required to carry out teaching activities for the subject of Physiology and will also be called to carry out integrated activities and services, that is, being part of examination and graduation commissions and providing any necessary assistance and training for students enrolled in Bachelor and Master-level degree courses together with thesis assistance for students enrolled in both levels.

Research and teaching activities are to be carried out at:

Department of Biotechnological and Applied Clinical Sciences.

Number of hours required for teaching and integrated activities:

350 hrs. per year. Total number of hours required for research, teaching and integrated activities: 1,500 hrs. per year.

Salary:

Standard initial salary for confirmed full-time researchers.

Qualifications and Competence Required:

Applicants wishing to take part in the selection must possess the following qualifications: Ph.D. in Biotechnology, or equivalent, obtained in Italy or abroad.

or alternatively,

a V.O. Degree (former Italian degree) in Biotechnologies - Medical major - or a "Specialist", or Master-level Degree obtained in compliance with Italian laws: D.M. n. 509/99 and D.M. n. 270/2004 (9/S Medical, veterinary and pharmaceutical biotechnologies); (LM-9 Medical, veterinary and pharmaceutical biotechnologies). Applicants must also possess a professional CV documenting their competence in the field, in particular certifying that they have carried out research in biology, morphology, structure and pathology of skeletal tissue. Applicants shall be required to possess a profound understanding of morphofunctional mechanisms pertaining to skeletal remodelling and alterations in both rare and common skeletal pathologies. Applicants must possess skills and competence in animal and cellular deep-phenotyping technology using omics-base methodology.

Applicants must also be able to apply techniques for structural, dynamic and bio-mechanic bone analysis, together with neurological and behavioural retinal circuitry analysis both in physiological and pathological conditions.

Foreign Language Requisite

English

Application period:

05.06.2015-06.07.2015

To consult the complete text of this announcement (in Italian) please visit the corresponding webpage in our Italian site.