



UNIVERSIDAD POLITÉCNICA DE MADRID
Escuela Técnica Superior de Ingeniería de Montes,
Forestal y del Medio Natural

Research Associate Position

“Timber Construction” Research Group

<http://www2.montes.upm.es/Dptos/DptoConstruccion/cestruct/>

Department of Forestry and Environmental Engineering and Management
School of Forest Engineering and Natural Environment
UNIVERSIDAD POLITÉCNICA DE MADRID (UPM)

Members of the UPM’s “Timber Construction” Research Group in Madrid will be working with partners from across the InFutUReWood Project (ERA-NET Cofund Action “ForestValue 2017”), to develop a more comprehensive understanding of: new ways to reuse and recycle timber and engineered wood products from demolition, especially into construction products; volumes, dimensions and quality of material that could currently be recovered and reused and which might be recoverable in the future following the implementation of design for deconstruction principles; and problems that current standards for building design, and timber product manufacture, require strength grading on a basis that is not compatible with reclaimed wood, and similarly varied new timber from less usual sources.

Applications are invited from suitably qualified candidates for a **full-time 23 months contract position as Research Associate**, to work with members of the “Timber Construction” Research Group on:

- An inventory of wood materials currently used in construction, based on selected building typologies;
- A survey of demolition/deconstruction practices in Spain;
- Design of new products from demolition material;
- Development of grading criteria for recovered wood and specification requirements for products;
- Development methods of in-situ assessment and post-deconstruction grading based on ND testing;
- Design of timber structures and products to optimize end-of-life reuse;
- Interaction with industry partners;
- Preparation of project reports and dissemination of research outputs.

Applicants should have:

- A MSc. or PhD. degree in Engineering/Architecture (or related discipline);
- Demonstrated knowledge of timber construction and wood technology;
- Excellent English language skills;
- Spanish language skills (recommended);
- Demonstrated commitment to deliver and publish research results;
- Willingness to travel.

The scholarship funds a 23 months contract position, with a gross annual salary (variable according to skills/qualifications) from €26,500 to €32,500, with a starting date of January 2020. Financed/supported by: ERDF/Ministry of Science, Innovation and Universities - State Research Agency/Project PCI2019-103544.

Applicants should send a **letter of interest including two references and a detailed CV via e-mail** (in Word or PDF format only) to: guillermo.iniguez@upm.es. Applicants must put **GICM RAP19 “Name”** in subject line of e-mail application.

The closing date for applications is 11:00h (CET) on Monday, 16th December 2019



InFutUReWood Project

Innovative Design For the Future - Use and Reuse of Wood (Building) Components

<https://www.infuturewood.info/>

Building in wood is a priority in Europe as part of a strategy to convert from fossil-dependency to a sustainable, bio-based economy. Timber construction is growing and innovative, with new methods of building and new engineered wood products, composites and treatments. A life-cycle approach is essential to ensuring this development is sustainable. This project examines how the design and construction of timber buildings influence end-of-life material reuse and recirculation. Timber building design approaches will be developed to maximise reconstruction potential and new products will be developed, which reuse current reclaimed wood, and other wood not currently entering the circular economy.

InFutUReWood is a consortium of researchers and industrial partners in the fields of engineering, architecture and wood science from Sweden, Finland, Spain, Slovenia, Germany, Ireland and the UK who intend to identify key problem areas and propose technical and methodological solutions for ensuring that the wood used in construction is fully recovered and reused at demolition, to shift current practices of landfilling recovered wood or burning it for energy.

Guillermo Íñiguez-González

Structural Design Group

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