



POSITION VACANCY ANNOUNCEMENT

Postdoctoral Researcher

(This is a grant funded, non-tenure track position. Funding must be available for any continuation of appointment.)

WORK LOCATION: University POLITEHNICA of Bucharest (UPB), Romania

POSITION DESCRIPTION: The employee will conduct full-time research in an interdisciplinary environment focusing on microwave and electromagnetic processing of biomass, including catalytic reactions, for thermochemical conversion of biomass resources in biofuels and bioenergy, including liquid, gaseous, and solid fuels and products. The research will also focus on developing novel microwave reactors, equipment, systems, and processes to improve conversion yields and selectivity, as well as on determinations of dielectric properties and modeling of microwave processes. Responsibilities consist of conducting and assisting with laboratory research (in a supervised as well as an independent environment), including experimental set-up, experimental design, sample collection, and sample analysis, as well as performing computer simulations of microwave processes. Responsibilities also include ordering materials and supplies, equipment maintenance, laboratory safety, and assistance with graduate and undergraduate student research, and writing of research manuscripts.

QUALIFICATION REQUIREMENTS: The applicant must have earned a PhD degree in biological engineering, chemical engineering, chemistry, materials science, engineering science or a similar field. Strong written and oral communication skills along with the ability to work with others in a team-oriented environment at UPB are a must. Laboratory experience and expertise with industrial/commercial-type microwave processing equipment is required. Prior work experience in grant-funded research projects is strongly encouraged. Research abilities and experience in the desired field as demonstrated through first authorship (or corresponding authorship) on peer-reviewed manuscripts published in ranked ISI journals. Additional desired qualifications include grant-writing proficiency and directing prior externally-funded research projects.

SALARY AND BENEFITS: Salary will be commensurate with qualifications and experience. The UPB has an attractive benefits package including all Romanian national holidays (currently 12 days) and annual (vacation) leave, as well as customary retirement and health benefits according to legislation. Research stages will be possible at Louisiana State University, USA.

DATE AVAILABLE: Upon completion of the selection process

APPLICATION DEADLINE: February 10, 2018 or until a suitable candidate is identified.

APPLICATION PROCEDURE: Must apply via email at bionov.pyrotech@gmail.com by attaching a single PDF file containing a cover letter, resume, transcript, copy of PhD diploma (or proof of near completion of PhD degree) and a list of three references with contact information. The cover letter must address how the applicant meets the requirements above, and will be evaluated as a sample of technical writing skill. Samples of published papers, while not required, are encouraged. Paper and faxed application materials will not be accepted.

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