LABORATORY OF CAD CAM CAE
UNIVERSIDAD EAFIT, COLOMBIA
CALLS FOR APPLICANTS

Call   **Comp-Geometry-01-2019**

Subject   **Development of Software for Shape Optimization in Lattice / Porous Materials with emphasis in Additive Manufacturing and Industrie 4.0.**

Closing Date: 06-01-2018 at 2359h via email to oruiz@eafit.edu.co

Level: Doctoral Study

Profile: Applicant must document:

1. M.Sc. (Maestria Investigativa) in Mechanical Engineering / Mathematical Engineering / Physical Engineering / Computer Science.

2. Previous Journal and Conference publications on (1) shape optimization, (b) Modeling of Porous / Lattice Materials. Journal publications must be ISI / Scopus Indexed. Conference Publications must be by a Publisher which is H- indexed.

3. Research Interest: Applied Computational Geometry and Mechanics.

4. Programming Skills (Java, Python, MATLAB, C or C++)

5. Experience in Teaching or Student Academic Tutoring.

6. GPA of M.Sc. over 90%.

7. English Level C1 or higher. Also, all publications credited in this call must be published in English.

8. Documented Academic Distinctions or Scientifically Demanding Activities.

9. Documented Participation in International activities

(i.e. outside Colombia), as follows: (a) Conference (with paper authoring), and (b) Internship (at least 6. Months, with products), and (c) Training Course.

All requisites of this call must be documented by attaching the Documents and their supporting Metadata (i.e. information which supports the existence of the submitted document).

Offer: (a) Tuition provided under category Loan (re - imbursement forfeited under conditions of academic excellence, indexed publications, timely termination, and others). (b) Living Expenses under category Assistantship are considered for especially competitive applicants (according to Profile). No Living Expenses are offered under category Loan.

Renewal of all financial aid categories is considered on a per-semester basis, according to student product evolution, evaluation of the student by Supervisors / Research Team, and resource availability in the supporting institutions.

Obligations: a- ISI / Scopus Journal paper publications on the Subject of this call.

b- H-index documented Conference publication on Applied Computational Geometry.

c- Development of SW solutions, industrially applied, on the topic of the call or supporting technologies.

d- Write Funding Proposals, and conducting all collateral professional activities (execution of demos, event representation, lobby with government or private institutions, technology assimilation / transfer, motivational seminars for young student groups).

e- Impeccable relations and behavior with team, fellow students, supervisors, institutions, etc.

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