

## CALL FOR FELLOWSHIPS Reference: BI-BL/60001/EPSO\_USE

INESC PORTO is accepting applications to grant fellowships to graduates, to work in the under-mentioned Research project, in the framework of Scientific Research and Technological Development Projects, managed by FCT - Fundação para a Ciência e a Tecnologia (Science & Technology Foundation), included in the Community Support Framework 2000-2006, supported by ERDF, ESF and the Portuguese State Budget.

The agreement shall be submitted to the legislation concerning the **Research Fellow Statute**, approved by Law n<sup>o</sup> 40/2004, dated 18 August, as well as by **INESC Porto Fellowship Regulation**, approved by FCT in 9 March 2005.

Project: EPSO - Enxame de partículas evolutivas, nova meta-heurística com aplicações em energia

Funding Entity: FCT (POSC/EEA-ESE/60980/2004)

Project duration: from 2005-07-31 to 2007-08-31 (25 months)

Work Area: Computational intelligence, optimization, power systems

**Description of the work to be carried out:** Study of meta-heuristics, especially EPSO - Evolutionary Particle Swarm Optimization.

Development of mathematical models.

Computer programming.

Application to real problems, in particular in power systems.

**Objectives to be accomplished by the Fellow:** Efective improvement in the performance of EPSO algorithms, with the proposal of model explaining their working mechanisms.

Scientific Advisor: Prof. Vladimiro Miranda

**Type of Fellowship:** Researcher Fellowship (BI-BL)

Duration of the Fellowship: from 2006-02-13 to 2007-02-12 (12 months / renewable)

Terms and conditions of renewal (if applicable): Clause 11 of INESC Porto Fellowship Regulation Financial conditions, payment scheme and schedule: Clauses 12 e 13 of INESC Porto Fellowship Regulation and Annex II Fellowship Contract Model: <u>Annex III</u>

Model Reports to be written by the Fellow and the Scientific Advisor: Annexes IV, V and VI

Academic Degree: BSc. or MSc. in Engineering, Economy, Mathematic, Physics or Computing, or other at the same level that may be considered adequate

Minimum Profile required: Knowledge and practice of computer programming

**Preferred Profile:** English - preference also given to candidates speaking French, Spanish, Italian or Portuguese. Knowledge and practice of C++, JAVA and MATLAB. Ability to work in a team. Knowledge about power systems.

Selection Criteria: selection of applicants will be made according to the criteria defined in Clause 7 of <u>INESC Porto Fellowship</u> <u>Regulation</u>

Application period: from 2006-01-17 to 2006-01-31

Required documents: Letter of application (clearly stating the reference of the Call), Curriculum Vitae (stating the course average) and Copy of the Diploma (it can be sent later)

All applications must be sent to:

INESC PORTO – Instituto de Engenharia de Sistemas e Computadores do Porto DIL- Human Resources (For the att: Margarida Gonçalves) Campus da FEUP, Rua Dr. Roberto Frias, nº. 378 4200-465 Porto Or by email: <u>dil-rh@inescporto.pt</u>







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