



Marie Curie Fellowships

The European Commission
Community Research

5th Framework Programme

Energy, Environment
& Sustainable Development
Thematic Programme

EC Marie Curie Fellowship Vacancies

The recent development of III-V multijunction solar cells with efficiencies over 30% and the very high efficiencies promised by 3G concepts underway has stirred a renovated interest in concentration technologies, the only possible shortcut to overcome the high price of this high efficiency novel PV converters, and take advantage of their potential for terrestrial low cost electricity production, to the point of even leapfrogging over other photovoltaic technologies.

Low cost, low maintenance, high reliability, subdegree precision sun tracking, yet remains, after more than 30 years of developments for the solar concentration technologies, an unsettled issue. The increasing interest for PV concentration implies an urgent demand for subdegree sun tracking achievements below the 100 €/m² of aperture, able to display effective automatic adaptive control strategies which counterbalance the effects of low cost low qualification installation crews, or those of dynamic misalignments due to structural stress, immune to overcast skies, power failures, and inverter interaction when assisted by power output feedback, and all this in an overall rugged design fitted to cope with climatic hostile environments. Moreover the strong growth experienced by the grid connected PV market in the last years due to the emergence of highly subsidized national policies almost everywhere will also claim for building integrated novel sun tracking concepts in order to take advantage of this upcoming progress in high efficiency concentration.

INSPIRA, SL a solar engineering company based in Madrid (Spain), with wide experience in the development and production of sun tracking systems for the photovoltaic industry, offers EC funded Marie Curie research fellowships, both to engineering postgraduates and doctors willing to acquire R&D expertise in this promising field within the privileged Spanish industrial environment (1st. European PV producer) and in close collaboration with the major European research agents.

Current vacancies:

Ref. msc-el

- Postgraduate young researcher holding an MSc. Degree in Automatic Control, Electronics, or Electrical Engineering qualifying him to embark directly on a doctorate or equivalent degree.

Ref. msc-mech

- Postgraduate young researcher holding an MSc. degree in Mechanical or Aeronautical Engineering qualifying him to embark directly on a doctorate or equivalent degree.

Ref. phd-el

- Postdoctoral young researcher (aged below 35) holding an PhD. degree in Automatic Control, Electronics, or Electrical Engineering or at least four years research experience at postgraduate level other than doctoral studies.

Ref. phd-mech

- Postdoctoral young researcher (aged below 35) holding an PhD. degree in Mechanical or Aeronautical Engineering or at least four years research experience at postgraduate level other than doctoral studies.

Conditions:

Duration: 10 months with a renewal option for 10 more months at completion.

Approximate Gross monthly salary

- PhD vacancies: 2.800€
- MSc vacancies: 2.000€

Applications:

Applicants shall submit:

- Letter of application and statement of research experience, interests, and goals
- Detailed curriculum vitae
- At least two letters of recommendation

To:

Inspira, SL
At. Ignacio Luque Heredia
C/Chile, 10, Edf. Madrid-92 Of.16-17
28290 Las Matas (Madrid)
Spain

Or electronically in .doc or .pdf format to:
mc.apps@inspira.es

Indicating the reference of the vacancy to which they apply.

For further information contact Inspira,SL at: mc.info@inspira.es or the Marie Curie Fellowship website at: http://improving.cordis.lu/mc/show-PRJ.cfm?obj_id=MCFellow0000000000045D9

Screening of applications will begin November 2002 and will continue until positions are filled