

PHD AND POST DOCTORAL RESEARCH POSITION

The Institute of Advanced Study (IAS) at the Technical University of Munich (TUM) has one vacancy for a PhD or post-doctoral research position. Candidates will specifically contribute to the Dieter Schwarz Courageous Research Grant:

<https://www.ias.tum.de/ias/programs/fellowship-programs/dieter-schwarz-courageous-research-grant/>

Research will focus on the application of operations research in power system operations and electricity market analysis, with a specific focus on the funded proposal “Storage as a Sustainability Enabler through Optimization, Machine Learning and High Performance Computing”.

Description of the position

The main activity of the researcher will be to conduct research under the supervision of Professor Anthony Papavasiliou (NTUA), recipient of the TUM-IAS Dieter Schwarz Courageous Research Grant 20206. Professor Christoph Goebel (TUM) will act as the host at TUM.

Possible topics of research include, but are not limited to

- Exploiting GPUs for large-scale optimization
- Value stacking of storage in competitive wholesale electricity markets
- Optimal planning of electric power systems

For more information on the research group of Professor Papavasiliou, interested applicants are encouraged to consult the following link:

<https://ap-rg.eu/>

The researcher may also be involved in teaching activities at TUM. The grant is for one to three years and carries full benefits and a monthly salary.

Required qualifications

The ideal candidate should hold a degree in Electrical Engineering, Computer Science, Operations Research or a related field. The ideal candidate should have a solid background in optimization, computer science, mathematics, statistics, economics, or related disciplines, an interest for the application of operations research in energy systems and strong programming skills. Familiarity with parallel programming is highly desirable. Proficient knowledge of English is highly desirable. A background in power systems is desirable, though not required.

To apply

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<http://users.ntua.gr/papavasiliou/>

In order to inquire about vacancies, please contact Professor Papavasiliou with a CV. If openings matching your background are available, you will be asked to submit a full application.

Full applications should include:

- A CV
- Unofficial transcripts of undergraduate and graduate studies
- Letters of recommendation (references can email their recommendation letters to papavasiliou@mail.ntua.gr)
- 3-5 drafts of academic work (published or submitted journals, conference papers)

Applications and questions about the opening can be emailed to Professor Anthony Papavasiliou at papavasiliou@mail.ntua.gr.

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