Post Specification

<table>
<thead>
<tr>
<th>Post Title:</th>
<th>Postdoctoral Research Fellow in Machine Learning for Sustainable Mobility</th>
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<tbody>
<tr>
<td>Post Status:</td>
<td>Specific Purpose Contract – Full Time Tenable immediately</td>
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<tr>
<td>Research Group / Department / School:</td>
<td>Distributed Systems Group, Discipline of Networks and Distributed Systems, School of Computer Science and Statistics</td>
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<td>Location:</td>
<td>Trinity College Dublin, the University of Dublin College Green, Dublin 2, Ireland</td>
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<td>Salary:</td>
<td>Commensurate with experience and achievement (in the range €42,782-€47,854)</td>
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<td>Reports to:</td>
<td>Dr. Melanie Bouroche</td>
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<td>Hours of Work:</td>
<td>39 hours per week</td>
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<td>Closing Date:</td>
<td>The closing date for applications is July 3rd 2023. Late applications will be considered if the post remains unfilled.</td>
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Post Summary

We are seeking to recruit a Postdoctoral Research Fellow to investigate the use of Machine Learning for sustainable mobility, within CONNECT - the Science Foundation Ireland Research Centre for Future Networks and Communications in collaboration with the E3 Kinsella SUMMIT (SUSTainable MobIlity Models for a Just Transition) initiative.

This project will seek to extend the state-of-the-art in machine learning to support the delivery of personalized mobility services at scale. The project may address topics such as enabling personalized on-demand travel services, optimizing journey-time predictability or collaborative journey planning in the context of limited transportation capacity. The successful candidate is expected to make contributions to the state of the art in machine learning applied to cyber-physical systems in areas such as deep/reinforcement learning, multi-agent cooperation, lifelong learning, and/or transfer learning. The position will be based in the CONNECT research centre at Trinity College Dublin, Ireland. The researcher will also be part of the School of Computer Science and Statistics in TCD. The position will be under the direction of Dr. Mélanie Bouroche. For informal inquiries please contact Melanie.Bouroche@tcd.ie.

Required Qualifications

The successful candidate must have a PhD in Computer Science, Computer Engineering, Electronic Engineering, or a related field. The post is applicable to both new and experienced PhD holders, and salary will be commensurate with experience and achievement. The successful candidate will join an inter-disciplinary team of highly-skilled and innovative researchers in Sustainable Mobility.
Essential Knowledge & Experience

• Expertise in machine learning, in particular deep and/or reinforcement learning
• Established track record of publication in leading journals/conferences, on relevant topics
• Excellent software engineering and programming skills
• Excellent written and oral communication skills
• The ability to work well in a group
• Strong self-motivation and willingness to learn

Desirable Knowledge & Experience

Experience in one or more of the following areas, is desirable:

• Intelligent transport systems/intelligent mobility
• Optimisation
• Distributed computing
• Experience of project proposal writing
• Industry collaboration

Post Funding

The post is funded by Science Foundation Ireland (SFI), as part of CONNECT the SFI research centre for Future Networks and Communications.

Application Procedure

Please send applications by email to Melanie.Bouroche@tcd.ie and Vinny.Cahill@tcd.ie quoting “Personalized Mobility as a Service Fellowship” in the subject line and containing three PDF files as follows:

(1) a cover letter,

(2) a curriculum vitae (giving full details of qualifications and experience, including transcripts of degrees, a description of your contribution to relevant project work, identification of your three most-significant publications relevant to the project, and the names and contact details of two referees), and

(3) a 1-2 page research proposal.

Please do not provide other documents, documents in other formats, or include any substantive information in the body of your email.

The closing date for applications is July 3rd 2023. Late applications will be considered if the post remains unfilled.