**Post Specification**

<table>
<thead>
<tr>
<th>Post Title:</th>
<th>Research Fellow in Deep Learning</th>
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<tbody>
<tr>
<td>Post Status:</td>
<td>Fixed-term Contract – Full-time – end 30/11/2019</td>
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<tr>
<td>Research Group</td>
<td>Graphics Vision and Visualisation Group (GV2)</td>
</tr>
<tr>
<td>/Department/School:</td>
<td>Trinity College Dublin, the University of Dublin</td>
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<tr>
<td>Location:</td>
<td>Trinity College Dublin, the University of Dublin</td>
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<td>College Green, Dublin 2, Ireland.</td>
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<td>Reports to:</td>
<td>Prof. Rozenn Dahyot</td>
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<tr>
<td>Closing Date and Time:</td>
<td>17:00 GMT on Wednesday 8th February 2017</td>
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**Post Summary**

- We are looking for a highly motivated researcher with a PhD and several years of research experience (including PhD). The recruited researcher will contribute in the design and implementation of a Deep Learning Toolbox of fundamental tools for deep learning for constrained architectures. It will provide an augmentation of standard machine learning and deep learning frameworks with deep learning methods targeted at embedded systems as part of the European project Bonseyes ([http://cordis.europa.eu/project/rcn/206356_en.html](http://cordis.europa.eu/project/rcn/206356_en.html)).

- The Graphics Vision and Visualisation Group (GV2) at Trinity College Dublin (TCD) is an internationally active research group dedicated to carrying out innovative research in computer graphics, computer vision and all aspects of visual computing.

- **The expected start date of the position is 01/03/2017 (expected) or as soon as possible hereafter (negotiable). The position is for the duration of the BonsEyes project (end date of BonsEyes 30th November 2019).**
Standard duties and Responsibilities of the Post

Reporting to the Principal Investigator the Researcher will:

- Conduct a specified programme of research under the supervision and direction of the Principal Investigator (PI).
- Support the PI and research group in the design, development and implementation of the research programme.
- Research solutions to problems in a number of areas of interest, including:
  - Deep learning
  - Machine learning
  - Computer vision
- Mentor, assist and supervise postgraduate research students as required.
- Assist the PI in the management / co-ordination of key aspects of the research programme (e.g. financial management, reporting, equipment management etc.).
- Engage in the dissemination of the results of the research in which he/she is engaged to the wider research community with the support and under the supervision of the Principal Investigator.
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University.
- Engage with internal and external stakeholders including academic and industry partners/collaborators as appropriate.
- Carry out administrative work associated with the programme as necessary.
- Participate in TCD such as industry showcases and annual reviews.
- Report on progress at meetings.
- Produce top-quality journal and conference publications, in collaboration with the Principal Investigator (PI).

Person Specification

The successful candidate should:

- Hold a PhD in computer science, or statistics or related fields.
- Have research experience in deep learning.
- Have publications in the top conferences (e.g. ICML, CVPR, ICCV) and/or journals (e.g. IEEE trans. Image processing, Pattern Analysis and Machine Intelligence, Machine Learning journals, International Journal on Computer Vision)

Knowledge & Experience (Essential & Desirable)

- Can demonstrate research experience in Machine & Deep Learning.

Skills & Competencies

- Excellent programming skills e.g. C, C++, Python, to deliver usable self-explanatory reusable code.
- Have excellent programming skills with experience using some deep learning libraries (e.g. caffe, torch, or tensor flow)
- Pro-active attitude and ability to work both independently and in collaboration with the PI and her research group.
- Excellent Communication Skills, and excellent writing skills.
Further Information for Candidates

<table>
<thead>
<tr>
<th>URL Link to School</th>
<th><a href="http://www.tcd.ie">www.tcd.ie</a></th>
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<tr>
<td>URL Link to Research Group</td>
<td><a href="https://gv2.cs.tcd.ie/">https://gv2.cs.tcd.ie/</a></td>
</tr>
<tr>
<td>URL Link to Human Resources</td>
<td><a href="https://www.tcd.ie/hr/">https://www.tcd.ie/hr/</a></td>
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Application Procedure

Candidates should submit a cover letter together with a full curriculum vitae to include the names and contact details of 3 referees (email addresses if possible) to:

Name: Rozenn Dahyot
Title: Prof.
Email Address: Rozenn.Dahyot@tcd.ie (Please include ‘BonsEyesTCD2017 postdoctoral research position’ in the subject line of the email)

Contact Telephone Number: +353 1 896 1760