

DEPARTMENT OF COMPUTER SCIENCE**SPECIAL SCIENTIST POSITIONS**

Title	: Special Scientist
No. of Position(s)	: Two (2)
Category	: One-year contract subject to renewal
Location	: Computer Graphics Lab, Department of Computer Science, University of Cyprus, Nicosia

The Department of Computer Science of the University of Cyprus is accepting applications for up to 2 full-time Special Scientist (Research and Software Development) positions, employed under the [ANNFASS Research Project](#). The following positions are available:

- Web Developer
- Machine Learning Developer

ANNFASS is a research project funded under the «Excellence Hubs» Programme of the Cyprus Research and Innovation Foundation. The project's main goal is the development of a deep learning framework and associated tools for analyzing the structure and the style of historical buildings. For more details on the project check out the project's website <http://annfass.cs.ucy.ac.cy/>. The successful candidates will be placed in the Computer Graphics Lab of the Department of Computer Science, and will have close collaboration with the [Visual Computing Research Group at the RISE Research Centre](#). The position holders will also participate in the preparation of project reports and deliverables, and travel abroad for dissemination activities. Furthermore, position holders will be expected to publish and present their research results in international conferences and journals. The successful candidates will work under the supervision of [Dr Melinos Averkiou](#) and [Professor Yiorgos Chrysanthou](#). Below you can find the details for each available position.

Job Title: Web Developer**Duties and Responsibilities**

- Work together with cultural heritage experts to refine and formalize their requirements in analyzing and visualizing historical monuments.
- Use agile software development methodologies to design, develop and test high quality web tools for assisting cultural heritage experts in visualizing, cataloguing and analyzing historical and architecturally-significant buildings.
- Create the necessary interfaces and APIs for web tools to connect to the ANNFASS neural network framework, i.e. provide input, collect output and visualize it.
- Collaborate with the Project Coordinator and Principal Investigators for the successful completion of tasks on time, and within budget.
- Report to the Project Coordinator.

Qualifications

- Bachelor's degree in Computer Science / Computer Engineering from an accredited institution.
- Strong coding skills in front-end and / or back-end web development.

- Ability to write efficient, scalable, well-documented code that is version-controlled daily.
- Experience in development of web applications using frameworks based on web technologies e.g. PHP, HTML5, CSS3 and JavaScript
- Willingness to research and learn additional skills needed to excel in the role.
- Self-motivation, ability to work independently, and excellent problem-solving skills.
- Excellent knowledge of both spoken and written English language.

Additional Qualifications will be considered an advantage

- Master's degree with focus in the areas of Computer Vision / Computer Graphics / Machine Learning.
- Confidence in mathematics (e.g., linear algebra, geometry processing, probabilistic methods).
- Prior experience with deep learning frameworks (e.g. TensorFlow, PyTorch, Keras, FastAI).
- Prior experience with productivity software (e.g. Quip, Trello, Slack).

Job Title: Machine Learning Developer

Duties and Responsibilities

- Conduct research and development using deep learning for analyzing buildings in 3D form.
- Work together with researchers of the project to design, develop and test parts of the backbone of the ANNFASS framework (data gathering, data loading, training, inference, optimize performance and accuracy).
- Work together with the web developer to create the necessary interface between the ANNFASS processing framework and the web tools exposed to the cultural heritage experts and the public.
- Make use of agile software development methodologies to develop and maintain high-quality code.
- Collaborate with the Project Coordinator and Principal Investigators for the successful completion of tasks on time, and within budget.
- Report to the Project Coordinator.

Qualifications

- Bachelor's degree in Computer Science / Computer Engineering from an accredited institution.
- Strong coding skills in machine learning and data science applications.
- Ability to write efficient, scalable, well-documented code that is version-controlled daily.
- Experience in developing tools using Python or similar scripting languages.
- Experience in development of machine learning applications using machine learning / deep learning frameworks (e.g. Tensorflow, PyTorch, Keras, scikit-learn)
- Confidence in mathematics (e.g., linear algebra, probabilistic methods).
- Willing to research and learn the skills needed to excel in the role.
- Willingness to research and learn additional skills needed to excel in the role.
- Self-motivation, ability to work independently, and excellent problem-solving skills.
- Excellent knowledge of both spoken and written English language.

Additional Qualifications will be considered an advantage

- Master's degree with focus in the areas of Computer Vision / Computer Graphics / Machine Learning.
- Experience in the area of Geometry Processing and 3D Modelling.
- Prior experience with productivity software (e.g. Quip, Trello, Slack).
- Prior publications in areas relevant to the project.

Benefits and Employment Terms

The positions are on a contract basis of one year with possibility of renewal subject to satisfactory performance and budget availability. The monthly salary is set between €2000 and €3000 (employer's cost) depending on the candidate's qualifications and expertise. From this amount, employee and employer contributions will be deducted. The position does not include a 13th salary bonus.

The employee will have the right to medical coverage (GHS) and shall contribute as of their date of employment 2.65% of their monthly gross earnings. Maternity and paternity leave will be granted based on Social Insurance Laws of the Republic of Cyprus.

Application Process

Interested candidates should submit the following items **via email** to melinos.averkiou@cs.ucy.ac.cy and **CC** yiorgos@cs.ucy.ac.cy:

1. A cover letter which clearly specifies (i) which position the candidate is interested in, (ii) employment availability date, and (iii) rationale on why you think you would be a good fit for the position. This should include a description of academic and research experience as well as any relevant industrial experience (*500 words maximum*).
2. A detailed Curriculum Vitae (CV).
3. Copies of degree certificates (BSc/MSc).
4. Contact details of two referees, either two University professors or one University professor and one industry referee. *References will only be requested for short-listed candidates.*

Candidates should **use the Email subject line**: "Application: ANNFASS Special Scientist Position".

Deadline: April 4th, 2020

Applications will be reviewed in the order received.

Recruitment will continue until the positions are filled.

The applicants may address any inquiries to **Dr Melinos Averkiou** at melinos.averkiou@cs.ucy.ac.cy.

All applications are treated in the strictest confidence. The University of Cyprus is an equal opportunity employer.