Job Specification:

**3D Computer Vision / Machine Learning Scientists, Engineers and Architects**

 London | Palo Alto | Munich

3DI ([www.3Dindustri.es](http://www.3dindustri.es)) is a ground-breaking London-based AI company, building developer tools and algorithms to power disruptive applications at the intersection of the real and virtual worlds.

* 3DI is at the cutting edge of 3D machine vision. Its platform offers real time, real world 3D object recognition, analysis and search.
* Addressable markets are VR / AR, robotics, retail, manufacturing, autonomous vehicles, 3D printing, healthcare, security and architecture.
* Industry-shaping partners including HP, Autodesk, IBM, Sony and Siemens.
* International team of leading scientists from Cambridge, Princeton, Stanford and more.
* Operations in London, Palo Alto and Munich.
* Featured in Forbes, Inc.com and the BBC.

**WHO WE ARE LOOKING FOR**

**Innovators and Rainmakers who want to build the future infrastructure of the spatial web**

**Superstar** scientists, mathematicians, engineers, computer scientists, data scientists and developers in the following spaces:

* **Machine / deep learning**
* **Computer vision; pattern, image and object recognition**
* **3D Scene understanding**
* **3D shape-based retrieval and geometric analysis**
* **LiDAR and Geiger mode lidar data processing**
* **Applications of geometric algebra**
* **Multiplayer Game and Physics engine development**
* **3D scan analysis and scene segmentation**

**SKILLSET**

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| Required | **Python**; **C++ or C**; At ease in **linux** environments; **Cloud / server** understanding; Familiarity with point clouds and meshes; Knowledge of 3D file formats |
| Good to have | Javascript; CUDA, HTML/HTML5; PHP; Perl; 3D graphics; APIs; Experience with low-end 3D scanners, Tensorflow, PyTorch, embedded hardware, GPU and FPGA familiarity, experience working with large datasets, security clearance |
| Approach | Familiarity with **agile** and **scrum** methodologies. |
| Relevant | Geometry analysis & image processing . Pattern recognition . Computer vision . Parallelisation and scalability . Cloud computing . Data science . Machine / deep learning . Semantic search . 3D file format handling & compression.  |

**CHARACTERISTICS & OUTLOOK**

* **Talented**, **passionate** and **hacker**-minded individual who likes to lean in and lead.
* Versed in **academic** language. Able to assimilate cutting edge research to deploy and test.
* **Fast** and **versatile learner**. Able to pick up new ideas and techniques quickly.
* **Creative**, **independent** and **practical** thinker and DOER. Gets great things done quickly.
* **Tenacious** individual on a mission to **solve** problems every day.
* Good **team player** who is able to effectively **communicate** ideas.
* **Innovative** contributor of ideas and solutions with real **vision.**
* **Interested** in all-things 3D and latest industry developments.
* Strong **track record** and code deployment (preferably in pro environment, at scale).
* **Disciplined** work ethic with a focus on results and deadlines, no matter what.
* Laser **focus** on quality, speed and user / client value. Rapidly mocks-up demos.

**WHAT WE OFFER**

* Dynamic, exciting and fast-moving tech startup environment.
* Young, innovative and international team. You will be working alongside highly accomplished, motivated and passionate colleagues who are leaders in their field.
* Significant autonomy with ample opportunity to shape areas of activity and research.
* Access to the latest emerging products and devices (e.g. servers, headsets, sensors, scanners, handheld devices etc.)
* Direct interfacing with partners and clients at the world’s leading technology firms.
* International experience; opportunities to work across Palo Alto, London and Munich.

**WHAT YOU WILL BE DOING**

* Working closely with the technology and product development teams.
* Building world-class code, products and solutions.
* Scaling and optimising existing codes, products, processes and architectures.
* Mocking up concepts and features, testing in situ, assessing, learning and repeating cycle.
* Keeping up with the latest research and trends to push the boundaries of what is deployed.

**TYPE OF CONTRACT**

* **Full time**; **Part time; Contractor**.
* Pay / conditions: **Market-leading** and **negotiable**. Dependent upon experience / record.

**APPLICATION DETAILS**

* Start Date: **Immediate** (ongoing)
* Application: **CV & cover email** to talent@3dindustri.es,

Please detail: Examples of related work (code, web links etc.); Available dates for work; Visa status.