

**JOB DESCRIPTION**

**Vacancy Ref: 0655-24**

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| **Job Title:** Research Associate in microfabrication technologies for sub-THz radiofrequency devices | **Present Grade:** 6P |
| **Department:** School of Engineering |
| **Directly responsible to:** Professor Claudio Paoloni |
| **Supervisory responsibility for:** support in supervision of PhD and final year UG/PG students |
| **Other contacts** Dr. Lei Wang, Dr Rosa Letizia, Mr Vincent Da Costa. |
| **Internal:**Research team**,** Lancaster academic and professional staff  |
| **External:**Industry and university collaborators, scientific community. |
| This is a ten month appointment, with possible extension, to actively contribute to the research projects led by Professor Claudio Paoloni in the field of sub-THz device by photolithographic processes for microfabrication.You will be member of the TWT Fab (http://wp.lancs.ac.uk/sub-thz-electronics/) group at Lancaster. **The main activities are:*** Setting and enhancing microfabrication processes based on photolithography and electroforming (LIGA) in Engineering clean room and Quantum Technology Centre clean room.
* Operation of spin coater, mask aligner, and any other equipment relevant to the activity.
* Investigate method for removal of photoresists.
* Measurements of samples and method validation.
* Contributing to the design of devices, masks and process calibration.

**Other activities relevant to the research are (training will be offered where necessary):**- Contribute to the design of RF components with specific focus on microfabrication.- Procurement of consumables and equipment.**Other important activities are:*** To take responsibility of the tasks and reporting of the project
* To participate to the project meetings; preparation and presentation of talks, posters and reports to disseminate the results of the project.
* To present papers to relevant international and national conferences and workshops and contribute to journal papers.
* To contribute if needed to the organisation of conferences, workshops and meetings.
* To assist PhD students and final year project students in the team in the development of different aspects of the research.
* To support the dissemination and exploitation of the results of the research.
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| **Job Title:** Senior Research Associate in microfabrication technologies for sub-THz radiofrequency devices | **Present Grade:** 7P |
| **Department:** School of Engineering |
| **Directly responsible to:** Professor Claudio Paoloni |
| **Supervisory responsibility for:** support in supervision of PhD and final year UG/PG students |
| **Other contacts** Dr. Lei Wang, Dr Rosa Letizia, Mr Vincent Da Costa. |
| **Internal:**Research team**,** Lancaster academic and professional staff  |
| **External:**Industry and university collaborators, scientific community. |
| This is a ten month appointment, with possible extension, to actively contribute to the research projects led by Professor Claudio Paoloni in the field of sub-THz device by photolithographic processes for microfabrication.You will be member of the TWT Fab (http://wp.lancs.ac.uk/sub-thz-electronics/) group at Lancaster. **The main activities are:*** Fabrication of high aspect ratio devices by SU-8 UV-LIGA.
* Setting and enhancing microfabrication processes based on photolithography and electroforming (LIGA) in Engineering clean room and Quantum Technology Centre clean room.
* Operation of spin coater, mask aligner, and any other equipment relevant to the activity.
* Investigate method for removal of photoresists.
* Measurements of samples and method validation.
* Fabrication of planar circuit on Alumina substrate.
* Contributing to the design of devices, masks and process calibration.

**Other activities relevant to the research are (training will be offered where necessary):**- Contribute to the design of RF components with specific focus on microfabrication.- Procurement of consumables and equipment.**Other important activities are:*** To take responsibility of the tasks and reporting of the project
* To participate to the project meetings; preparation and presentation of talks, posters and reports to disseminate the results of the project.
* To present papers to relevant international and national conferences and workshops and contribute to journal papers.
* To contribute if needed to the organisation of conferences, workshops and meetings.
* To assist PhD students and final year project students in the team in the development of different aspects of the research.
* To support the dissemination and exploitation of the results of the research.
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