

**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. | |