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Załącznik 1

FORMULARZ DLA PODMIOTÓW PRZYJMUJĄCYCH STAŻYSTĘ

KONKURS O STAŻ
„Polish Space Fellowship Program"
dla absolwentów studiów na kierunkach technicznych i młodych naukowców

Nazwa podmiotu:	QWED Sp. z o.o.
Wielkość podmiotu:	MŚP - mikroprzedsiębiorstwo
Adres podmiotu:	ul. Krzywickiego 12/1, 02-078 Warszawa
Osoba do kontaktu w sprawie konkursu:	dr inż. Małgorzata Celuch, Prezes Zarządu mceluch@qwed.eu
Główne obszary działalności rynkowej podmiotu:	QWED is a high-tech SME of 10 R&D engineers, successfully competing on the international markets with corporations of 10 000+, in the areas of **computer multiphysics simulations** and **material measurements at microwave and millimetre-wave frequencies**. QWED flagship products are: **- QuickWave simulation software**, comprising electromagnetic and thermodynamic modules, operated through different Graphical User Interfaces, from the industrial standard Autodesk Inventor Software to FreeCAD-based QW-Modeller, - **high-frequency (GHz) resonators**, some of which have become industry standards for materials' testing (SPDRs defined by IEC 61189-2-721:2015), while more recent ones open new perspectives in surface imaging of energy materials (2D scanners recognised as European Horizon Innovation Radar 2021) or materials assessment for 5G/6G technologies (FPOR up to 120 GHz). QuickWave software has been used in space technologies since 1997 (by NASA-related laboratories of NRAO for e.g. Atacama Large Millimetre Arrary designs and JPL-Caltech for cosmos-related bio-research). It matches and often outperforms the simulation packages by ANSYS, Dassault-CST, and COMSOL. QWED instruments are advocated by KEYSIGHT and ROHDE & SCHWARZ as a valued extension to their Vector Network

	Analysers but also used in conjunction with VNAs of other brands and marketed by QWED directly. QWED participates in Europan research and innovation projects (currently: H2020 NanoBat, M-ERA.NET ULTCC6G_Epac and I4BAGS) and collabotares with leading industrial and research institutions worldwide.
Wymagania od kandydatów (np. ukończony kierunek studiów, specjalizacja, posiadane certyfikaty, dotychczasowe doświadczenie zawodowe, znajomość języków obcych, itp.):	We seek a **passionate researcher-engineer** willing to join in our ambitious developments in the areas of **multiphysics computer simulations** for space, aeronautics, and e-mobility applications. - Preferred background will be in **computational physics or applied mathematics,** while affinity to **materials science** or **mmWave technologies** will also be an asset. - Candidates of other technical backgrounds and at any career stages allowed by the Programme can also be considered - **scientific curiosity and/or engineering conscientiousness** are more important than a CV. Other requirements: - good knowledge of written & spoken English (proficiency will be an asset), - programming experience (C++, Python, MATLAB, other), - reporting and presentation skills, - timeliness, diligence, open-mindedness, felxibility, and collaborative spirit.
Ogólny opis stanowiska pracy:	A successful candidate will work at QWED Research Labs in Warsaw centre. Personal and online collaborations are also planned with QWED partners in the European projects as well as at the Warsaw and Gdansk Universities of Technology. The work will mainly concern modelling and simulations of multipactor, plasma generation, fluid flow, and discharge phenomena, relevant to space environments and industrial applications. The work will comprise: 1. defining and simulating representative scenarios in QuickWave and other available software packages, 2. development and C++ (or PYTHON) implementation of an advanced multipactor model – comparison to the ESA's ECSS MULTIPACTOR TOOL V.2.0.0. The researcher will contribute to scientific publications and technical meetings. The results of the 5 months apprenticeship should include at least one *White Paper* and one submission to an international event (e.g. IEEE conference or European Space Agency workshop). Extension of the apprenticeship into a longer-term employment contract, and M.Sc. or Ph.D. studies, is to be considered.
Data i podpis:	10.03.2023

Wniosek należy wypełnić elektronicznie i w wersji edytowalnej **oraz** w formie skanu z podpisem przesłać na adres staze@space.biz.pl. Jedynie przesłanie **obu** plików będzie uznawane przez organizatorów za zgłoszenie podmiotu do konkursu.

Wysyłanie niniejszego formularza na adres staze@space.biz.pl równoznaczne jest ze zgłoszeniem do udziału w KONKURSIE O STAŻ „Polish Space Fellowship Program" i zaakceptowaniem regulaminu KONKURSU O STAŻ „Polish Space Fellowship Program" dostępnym na www.space.biz.pl.