

**Data Science Technical Mentors - Data Science for Social Good UK Programme
University of Warwick, Coventry, UK**

Can you use your data skills to help others? Would you like to make a real difference to people's lives and help some of the top emerging data scientists to fulfil their potential? Would you like to work with us during the summer of 2022 and see how data can be used to work on real world projects that create change? If you have a passion for data science, care about the social good, and love to work in an international team of top talent, then we're looking for some exceptional people and maybe, that could be you.

THE ORGANISATION

Warwick is one of the UK's leading universities, with an acknowledged reputation for excellence in research and teaching, for innovation, and for links with business and industry.

We're a world-leading university with the highest academic and research standards. But we're not letting the story end there. By 2030, Warwick will be one of the world's exceptional universities, helping to transform our region, country and world for the collective good.

Our commitment to research at Warwick is that it will be internationally leading, impactful and provocative. It will change the world, making lives healthier, safer, more resilient, more just and more fulfilled. Our research produces transformative and lasting solutions to the multidisciplinary global challenges of both today and the future.

Data science is a key strength at Warwick. Our data research spans multiple disciplines, from maths, to astrophysics, to social science and the humanities. [Warwick Data](#) unites the University community, and showcases cutting-edge data science research, as we work to interrogate and understand data and the role it plays in all our lives.

With our status as a founding member of the [Alan Turing Institute](#) and our multiple research projects and centres in Data Science, we are ideally placed to run the Data Science for Social Good programme, in the UK. We invite you to join us as we grow the data science research community, supporting the goal to develop the next generation of data science leaders, shape the public conversation, and push the boundaries of this new science for the public good.

THE ROLE

The Data Science for Social Good UK programme ([DSSGx](#)) is a 12-week project-based training activity designed to give aspiring data scientists a strong skill set for solving real-world problems and an understanding, excitement, and passion for solving problems with social impact. Working closely with governments, charities and nonprofits, fellows take on real-world problems in education, health, international development, and more. Previous Technical Mentors (TMs) have found the overall experience of DSSGx really rewarding, working on projects that deliver real world solutions

alongside highly skilled, motivated and committed fellows. DSSGx is part of a growing, global network of using 'Data for Social Good', of which the TMs can become part.

The Data Science (TMs) are a critical component of DSSGx. TMs work with dedicated teams of fellows and provide hands-on technical mentoring and data science expertise to the projects. Each TM is teamed up with a Project Manager who leads the relationship with the project partner as well as making sure the team is moving forward. Mentors will also help teach workshops and tutorials over the summer and are an integral part of the organising team.

An ideal TM is an experienced data scientist with strong technical skills, practical experience, with an interest in mentoring students to learn real-world skills and make a social impact. Typically, TMs have worked in industry for a significant amount of time; working in areas such as Computer Science, Machine Learning, Social Science, Statistics, and related areas, and have experience working on data science problems.

This role will be for 15 weeks between 23 May – 2 September 2022. You will be based at the University of Warwick, Coventry, UK. We are looking for two full time TMs, but there is potential for a job share for the right applicants.

Your duties and responsibilities:

- Technical lead on 2-3 projects with 3-4 Fellows per team
- Technical adviser
- Teach workshops and tutorials
- Develop some material for the taught components

PERSON SPECIFICATION

The successful candidate will have:

ESSENTIAL

- Competent methodological background in applied ML and applied data science
- Experience with either data science / machine learning toolkits in Python (Panda, NumPy, Matplotlib, Scikit- Learn, Beautiful Soup)
- Real world, professional experience in a field that utilizes modern day data science tools and methodologies
- An understanding of the importance of good practices for producing reliable software and reproducible analyses: software project management and collaborative coding, Git and Github, issue tracking, literate analysis tools such as Jupyter
- Demonstrated enthusiasm and ability to rapidly assimilate new computational and mathematical ideas and techniques on the job, at a more than superficial level, and apply them successfully
- A desire to use data for global ethical and social good, that generates a social impact

DESIRABLE

We do not expect any candidate to have experience of all of the below! We are a learning team, combining many techniques and approaches to address our projects. Successful candidates will be

able to demonstrate existing knowledge of more than one criteria, depending on experience level, and, importantly, a commitment to develop new expertise in others.

- Experience working on social impact projects and passion for making a social impact;
- Experience in using large, scalable relational databases, ranging from postgresql to redshift
- Writing technical documentation.
- Experience with public cloud platforms.
- Experience working with confidential and sensitive data for research.
- Experience contributing to, maintaining and/or leading open source research software projects.
- Experience building open source communities.
- Working with databases and APIs for the acquisition of parameter information for models.
- Developing and/or delivering teaching and training in computational or mathematical methods for research.
- Automated testing, software quality assurance and continuous integration.

Salary: £15k for the 15 weeks of the programme

If applicable, accommodation will be provided at the University of Warwick

You will need to show you have the 'Right to Work' in the UK, which may require a visa for non-UK / UK based citizens.

To apply:

- Send a short statement letter stating why you would be the ideal candidate for the position (~1 page)
- Include a detailed CV, with special focus on: obtained degrees, classes taken in relevant topics, publications, programming skills, experience working on social impact projects, your track record.

Interested applicants should send the above documents in a single PDF document quoting "Technical Mentor Application, DSSGx" via email to: dssg@wbs.ac.uk

Warwick Business School was the first UK business school to receive the Athena SWAN Silver award for progress in gender equality and The University of Warwick provides an inclusive working and learning environment, recognising and respecting every individual's differences. We welcome applications from individuals who identify with any of the protected characteristics defined by the Equality Act 2010.