

Building analytic capability to address compound pressure across health and care systems: testing an approach.

Expression of interest: Operational modelling and data science projects

In collaboration with Wessex ARC, the SETT Centre is excited to announce an opportunity for innovative operational modelling projects. We are offering data science expertise and support for clinical data extraction to several projects over the next 12 months (expected completion by March 2026).

Analysing large-scale data across the health and care system is crucial for addressing key research priorities in Wessex. These priorities include understanding and mitigating pressures on the health and care system.

We are keen to develop collaborative partnerships that bring together clinicians, data scientists specialising in operational modelling, and clinical experts. We aim to tackle complex healthcare challenges by uniting these diverse skill sets. Our goal is to address problems that meet three key criteria: they should be relevant to University Hospital Southampton and its patients (UHS), amenable to data modelling tool and techniques and beneficial to the broader healthcare community.

Through this approach, we hope to develop innovative solutions that improve local healthcare operations and have the potential to make a wider impact in the field. By leveraging the combined expertise of our collaborators, we can create data-driven insights that lead to more efficient and effective healthcare delivery.

Our offer

The SETT: Data & AI team will

- Provide data science support and advice on data availability and use, to address operational challenges.
- Provide UHS clinical data extraction by the Data and AI team to 3-4 projects
- Host a future workshop bringing together project teams to share findings.
- Data will be shared via the Wessex SDE

Project details

- Projects to have a clear demonstration of data modelling for service improvement/audit.
- Awards are expected to pump prime larger projects, further grant applications or clinical trials within 2-3 years.
- Should focus on areas of interest to UHS NHS Foundation Trust – projects that address theatre scheduling and emergency department flow are particularly welcome.
- Award is open to all UHS/UoS research leads (The lead investigator will have a substantive or honorary contract with UHS)
- Project teams are expected to include both academic and clinical team members, ensuring that skills are shared and learning is translated into operational improvement and, in turn, improved care.
- Projects are expected to run for a maximum of 12 months.
- Teams are expected to produce a final report and present their work at a SETT-hosted workshop.

Key dates

- Deadline for applications **Friday 14th February**
- Applications will be considered by the Data Access Committee (DAC) **Thursday 13th March**
- Operational Impact Workshop autumn 2025 (tbc)

Please submit this application to SETT via email :- SETT@uhs.nhs.uk by **Friday 14th February**.

Section 1: Application Summary Information

a) Lead applicant details: (must hold honorary contract with UHS)

Name:
Post:
Employing organisation:
Email:

b) Co-applicant details (including academic and clinical members)

Name:
Post:
Employing organisation:
Role/contribution to the project:

Name:
Post:
Employing organisation:
Role/contribution to the project

Name:
Post:
Employing organisation:
Role/contribution to the project

c) Project title:

d) Proposed start date:

e) Project duration in months

Section 2

1. Plain English summary of the project – (Word limit 500 max)

2. Project plan and methods to be employed - Background, objectives, design, outcomes.
(Word limit 1000 max)

3. Data elements required

4. Dissemination and knowledge transfer plan (Word limit 300 max)

5. What impact will this project have and how will it inform a future work programme? (Word limit 300 max)

6. Additional information - Is there any further information that may support your application?

Authorisation

Lead applicant.

Responsibility for overall management and delivery of the project. If awarded the grant you agree to respond to request for data on the progress and impact of the project to enable SETT to meet the requirements of our agreement with Wessex ARC

Date of application

**Send your completed application form and costing template to
SETT@uhs.nhs.uk**

Closing date for submissions **Friday 14th February 2025**