



THE ACTION OF ONE

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IcebreakerOne.org

Information & Data Architect

Contract: Fixed - March to end of July 2021
Location: Flexible (working from home until further notice)
Hours: Up to three days a week
Rate: Contractor rate - £500 - £600 / day

About Icebreaker One

We are a diverse collection of like minded people whose expertise spans policy and science, finance and engineering, data and systems—working together to tackle one of the greatest challenges of our time. We need your help.

Our mission is to make data work harder to deliver net-zero outcomes.

Open Energy (Phase III)

We have secured funding for the third phase of our [Open Energy project](#). During this phase we have six months (February-July) to deliver a fit-for-purpose, market-ready, operational service, with a sustainable business model that directly meets the needs of

its users. Working iteratively, collaboratively and in the open, the objective is to take the work and prototyping from Phase II through a private-to-public scaling of the Open Energy Governance Platform (OEGP) and related search and discovery services. This work will be done using Agile methodologies, taking a decentralised, open approach to the design and implementation of the solution. Core to this phase is our Open Engagement, continuing to work directly with, and seek continuous feedback from, the energy industry. We will do this through Advisory Groups as well as 1-1 conversations and wider webinars.

Note that the OEGP and related search systems will consist of a combination of third-party systems, internally operated systems based on open source software, and an amount of custom-developed code necessary to tie things together into a unified whole. This means we are not building it all ourselves, but we will build those parts we need that aren't readily available.

The phase II prototype search service was built using CKAN, and we expect to continue to use it. As such, it would be beneficial for the successful candidate to be familiar with CKAN. The other major component of the system is the OEGP, which was prototyped using existing Open Banking technology.

Note that we don't expect the work to be limited to CKAN, but will extend to other backend development and integration tasks to be determined as we respond to feedback from early users, and as we refine the public-facing service.

We are not expecting to build large-scale capabilities during this beta phase, but rather are laying the foundations for robust, secure and reliable services that will grow into the future.

The role

Reporting

Responsible for delivery to the Delivery Manager and the Research Director, as required.

Liaise and collaborate with other members of the Open Energy team and Icebreaker One to help ensure the successful delivery of the project.

Responsibilities

- Research and create data schemas and metadata necessary to support the integration or comparison of data from diverse sources in a coherent way
- Work with the delivery and research teams to apply these schemas to the APIs that identify and index third-party data sources relevant to the use cases
- Where appropriate, contribute to the configuration and adaptation of CKAN and related open source systems as part of the OEGP
- Create data handling tools to support the work of the development and operational teams
- Where appropriate, support the work of the delivery team in designing the technical architecture for the OEGP
- Where appropriate, work with the Research Director, Product Owner and Delivery Manager to continually refine the project roadmap

- Where appropriate, work with peers in third-party organisations, such as the Energy Networks Association, to align our schemas and metadata definitions with theirs
- Where appropriate, contribute to webinars that discuss our work
- Where appropriate, publish data, schemas and other supporting material under open source/creative commons licences

Results

- Data schemas that enable the integration, indexing and combination of data from third parties across the energy sector
- Draft metadata specifications for use in labelling such attributes as data source, reliability and semantics
- Dataflows identifying how key data moves through the energy sector
- Example data and documentation necessary to support a sandbox environment to ease third-party set-up and integrations
- Appropriate documentation and tooling to support development, research and operational teams

Knowledge, Skills, Experience

- Significant experience of the creation of data schemas and metadata standards for the purposes of interoperability and discovery
- Ideally, demonstrable experience working with CKAN or similar
- Ideally, demonstrable experience working with API-related schema standards such as JSON Schema or JSON-LD
- Familiarity with various potential, proven standards to base our work on, such as schema.org
- Familiar with the principles of open data
- Ideally, familiar with energy data
- Ideally, familiar with task/project management tools, such as JIRA or Trello
- Demonstrable experience of working in support of agile delivery teams to collectively and quickly build new systems
- Demonstrable experience of working in support of a group of team members.
- Familiar with using and applying Google Suite/Workspace, Slack, social media and other tools for working remotely and in the open.

Are you an Icebreaker?

The organisation has been built from within and intends to continue to do that in the future to encompass all flexibility - that's in our DNA and that's what makes us different.

Icebreakers have the energy, passion and tenacity to deliver the purpose of wide-ranging challenges. On top of that, it is not just about what you can do but it is about how you do it as a member of the IB1 team. Online or in person we are all part of and will work together for the benefit of the Icebreaker One team and wider constellation.

Our aim is that everyone's team user experience (TUX) is about shared problem solving in open, collaborative and non-confrontationally challenging ways. We work in a supportive environment so that we can do and make things as best as we possibly can.

Icebreakers work with us on, sign up to, and strive for the following in what they do and how they behave with their fellow Icebreakers and our wider community:

- A collaborative and collegiate approach - we are open by default - in a fast-paced environment.
- It is what you can bring and what you want to achieve mixed with enthusiasm and a desire to do that alongside and not at the expense of others. This includes a willingness to help out and get stuck in with any other reasonable tasks for your project that help us to achieve the deliverables.
- Appropriate use of feedback channels to share up front and friendly feedback - good friends honestly and fairly critique what each other does and it's ok to agree to disagree.

The benefits of being an Icebreaker?

- Flexible working - to help you work around your needs and commitments we don't have work or meetings booked on a Friday!
- Remote working - we may all be working remotely but it doesn't get in the way of us working closely. Regardless of whether working remotely is by choice or by necessity - daily standups and regular work and non-work related hangouts mean you are not alone.
- Supportive working - Bring and share what you know as you'll be working with people willing to learn and share knowledge and support from getting the most of the virtual / remote TUX through using Google Docs/GSuite to show and tell sessions ranging from essential research to sharing pictures of Christmas trees!

Apply today

Please note that before applying you will need to ensure you have the right to work in the UK and can provide documentary evidence of this.

Email a CV or links to pages that show us what you have done and can do to help us to achieve our mission to **jobs@icebreakerone.org**

Applications must be received by 9am GMT on 23 February 2021.

As a team, we are committed to equality and creating an inclusive culture with diverse and balanced backgrounds. We actively encourage applications from everyone and will help to support you to reach your full potential and to be yourself in a working environment based on dignity, respect and mutual support. If you have any queries or need any advice or adjustments at any stage of the recruitment process please contact us at the email address above.