

## UNPAID VOLUNTEER - Blockchain Software Developer

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Company: Blockchain & Climate Institute

Location: United Kingdom

Category: computer-and-mathematical

THIS IS AN UNPAID ROLE

**Role**Blockchain Software Developer

**Nature**Voluntary (unpaid)

**Location**Remote

The Blockchain & Climate Institute (BCI) is an international volunteers-led think tank supporting and advocating the application of blockchain technology in the global fight against climate change.

### What will you be doing?

We are looking for passionate **VOLUNTEER Blockchain Software Developers** to take a methodological approach to their work, conduct independent research and analysis, engage with key stakeholders and establish strategic partnerships to progress BCI's core mission.

Blockchain software developers, which belong to the Technology Officer Grade, are expected to possess experience across a range of Distributed Ledger Technologies (e.g. Hyperledger, Ethereum).

Skills range can span the entire ecosystem, from the core developer of cryptographic algorithms to just support testing and operations of established ledgers.

### Responsibilities:

To provide software development support (including blockchain coding or engineering) across BCI, especially in Research Divisions I and II;

To provide inputs for Councils established under the BCI Fellowship Scheme;

To support the development of Proof-of-Concept DLT applications across sectors (e.g. Finance, Energy, etc); and

To attend conferences and events to promote the BCI, demonstrate prototypes, and engage with key stakeholders.

## **Requirements**

### **Education & Training:**

A relevant degree or training in a relevant discipline, e.g. Computing, Engineering, Math, Physics, etc (Master's or Ph.D. are a plus);

Experience in producing research outputs and structured reports for different audiences.

### **Credentials:**

Minimum one year's solid experience in developing blockchain systems;

Familiar with mainstream public chains, such as Bitcoin, Hyperledger, Ethereum, Tether, EOS, Ripple, and Monero;

Sound knowledge of Linux and Cloud infrastructure (e.g. AWS, Azure);

Familiar with third-party tools such as GitHub and other open-source projects;

Familiar with consensus mechanisms and encryption algorithms such as PoW, PoS, DPos, PBFT, RPCA, and Raft;

Experience with software development, e.g. Java, C++, Solidity, JS, Go, Python;

Experience developing smart contracts within existing and emerging DLTs and knowledge of standards for token contracts (e.g. ERC20);

Experience with Docker, Kubernetes, and other aspects of Microservice Architectures and DevOps;

Willingness to constantly learn & improve, challenging yourself to stay at the top of your game.

## **Skills & Abilities:**

Excellent oral communication skills, including the ability to develop effective working relationships, work flexibly across professional and operational boundaries, and communicate professionally with internal and external stakeholders at all levels;

Excellent English writing skills and detail-orientated;

Excellent organizational skills and ability to balance competing demands under pressure;

Strong presentation skills and ability to present ideas appropriately and persuasively;  
and

Aptitude in Arabic, Chinese, French, Russian, or Spanish (desirable).

## **General & Specialist Knowledge:**

Proficiency in the use of Microsoft Office; and

Strong depth of knowledge on topics central to the BCI such as climate change, climate finance, blockchain technology, and artificial intelligence preferred (see vacancy description for details).

## **Benefits**

Blockchain and other emerging technologies. Climate change and sustainability. These are two hot topic groups that have been headlining media outlets, dominating conferences & events, and gaining increasing traction in research and pilot projects. BCI is here as an expert platform to help governments, inter-governmental and regional organizations as well as relevant corporates to negotiate the complex landscape of emerging technologies for environmental good.

We cement our expertise by putting in the hard work in researching, identifying, and analyzing the applications of emerging technologies so that informed decisions can be made by the stakeholders in the climate change and action network.

## **Benefits you will get from volunteering with BCI are enormous and some include:**

Your mind will be mentally stimulated, hence providing you with a sense of purpose;

You will advance and boost your professional career by helping you to make

professional connections and giving you real-world experience at the intersection between climate and emerging technologies; and

Help you develop long-lasting professional relationships with others. People who come together to make the world a better place forge a close connection.

### **Selection Process**

As a voluntary organization, we are pleased to open the door for candidates who may not have the prior experience they need to start, progress, or switch their careers. To recruit the most suitable, talented, or potential new members out of the volume of applications received, it is the BCI's policy to also consider inexperienced candidates to fill our voluntary unpaid roles as long as they can demonstrate the skills required in the written assessment. In the selection process, most candidates will be invited to complete the following assessment.

Section A: Verbal and Numerical Reasoning (20 multiple-choice questions)

Section B: Situation Judgement Test (20 multiple-choice questions)

Section C: In-Tray Exercise (An open-ended assessment relevant to the duties of the role)

Candidates who pass all three sections will be invited to attend a phone screening, first interview, and final interview online.

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### **Cross References and Citations:**

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