

Electronics Engineer

Position Type: Full-time

Start Date: August/September 2019

About Us

Deciwatt design portable renewable energy products that provide instant access to light and power. Unlike competing solutions, our products are self-contained sources of energy that do not rely on sunlight or mains electricity.

Our first product 'GravityLight' inspired millions by creating electric light from the lift of a weight. GravityLight was named as one of TIME magazine's best inventions of 2013 and Deciwatt was recognised as one of the 'Most Innovative Companies in the World' by Fast Company magazine.

Our new solution '**nowlight**' creates both light and power from the pull of a cord. By leveraging uniquely efficient bio-mechanics and the latest battery technology, just one minute of pulling creates up to two hours of light!

For more information about **nowlight**, have a look at the successful [crowdfunding campaign](#) we ran in 2018, watch this [video](#) that we made for potential investors and read the [product page](#) on our website.



Over the last two years we've taken **nowlight** from concept, to prototype, to finished product. We have just begun mass production of **nowlight** and are gearing up for an international launch in Q3 of 2019, with four target markets:

Emergency Preparedness

There are hundreds of millions of people who are vulnerable to power cuts or displacement from their homes due to extreme weather and natural disasters. For these users **nowlight** can provide a portable, independent and ever-ready source of light and power.

Leisure

From camping and hiking, to music festivals and overlanding. From finding tools in the shed to brightening up a beach hut. **nowlight** is perfect for off-grid adventures and providing light and power anywhere that an electrical grid doesn't reach.

Off-grid Households

There are one billion people in the world who have no access to electricity. Up to one billion more only have access to an unreliable supply. **nowlight** can provide these people with clean reliable and affordable power. Unlike competing solar products, **nowlight** has no reliance on sunlight.

Humanitarian Aid and Relief

Almost 90% of the refugees living in managed camps have no access to electricity. Working with international aid agencies we can use **nowlight** to provide refugee households with light and power. Last year we worked with the Red Cross to trial nowlight in refugee settlements in Rwanda and Uganda.

About the Role

The Electronics Engineer position presents an exciting opportunity to work on improving and expanding our range of energy generating devices. With a strong user-focused design process, you will not be confined to a workshop and will also spend time in the field. Some of the projects you will work in the first year in the role include integrating 'Pay-As-You-Go' technology into **nowlight** and managing international field trials in South Asia and sub-Saharan Africa.

As Deciwatt is a small start-up, this role is broad and dynamic. Your responsibilities will include scoping and development of new products, as well as making improvements to our existing range by improving functionality and reducing cost. The role presents a great opportunity to grow your skillset, working as part of a small and highly committed team. You will work closely with our Technical Director and Product Design Manager and will also collaborate with expert consultants that we hire to help us address specific technical challenges.

These are the roles and responsibilities that you will take on:

Electronics Design and Development

- Rationalising solutions in terms of electronics requirements
- Creation of initial prototype circuitry to prove concept

PCBA Design and Testing

- Schematic management and creation
- PCBA layouts for multilayer boards using modern CAD systems
- Assisting management of the product BOM
- Consideration for regulatory testing and compliance with international standards such as CE

Product Management

- Working within established timeframes and budgets
- Communicating with the team project requirements
- Assisting management of the product BOM
- Managing international based trials with occasional international travel

Programming

- Working with Git source centres
- Embedded software design with use of microcontrollers
- Source control and file management
- C programming creation

Product testing

- Supporting diagnosis of issues related to infield products
- Reviewing systems in relation to product improvements or cost downs
- Working on life test rigs with the product design engineer

About You

The ideal candidate for this role would have:

- At least 5 years relevant work experience including relevant working experience in consumer electronics
- Hands on technical skills for building and testing prototypes circuits
- Strong knowledge of PCBA design for manufacture
- Ability to manage a project working individually with support from other team members
- Programming ability to design code for product implementation
- Experience of consumer electronics products
- Ability to test systems to highlight areas for optimisation
- Comfortable talking through technical details with external partners
- Fluent in spoken and written English

Benefits

- £30,000 – £40,000 salary, depending on qualifications and experience.
- Up to 3% contribution to your pension
- 20 days holiday per year plus 5 days off between Christmas and New Year
- 1 extra day of holiday after each full year of employment, up to a maximum of 25 days

To Apply

Send your application to Chris Skilton via recruitment@deciwatt.global with the subject line “[Your Name] / Electronics Engineer Application” and:

- Write a covering letter telling us about yourself and why you want this role
- Tell us about a project that shows the best of your professional skills
- Attach your CV and/or link us to a LinkedIn profile or online portfolio

The closing date for applications is midnight on **Sunday July 7th**, although we will be conducting interviews on a rolling basis.

Please note that due to the volume of applications we receive for open positions, we will only respond to applicants who are invited to interview.