

## **POSITION DESCRIPTION**

### **FRONT-END ENGINEER / DEVELOPER**



**Location:** Parkville

**Division:** eOxygen

**Salary range** \$70,000 - \$85,000

**Employment Type:** Part-time (0.8 FTE) to full-time fixed term position available for 12 months

**Position reports to:** Head of Computing, eOxygen

## **1. POSITION SUMMARY**

Working with a varied team of computer programmers, psychologists and creative content creators, this role primarily involves supporting our JavaScript-based front-end web development. The main responsibility of the Front-End Engineer / Developer will be to contribute to the ongoing development and enhancement of our Moderated Online Social Therapy (MOST) web application.

The Front-End Engineer / Developer will be expected to take initiative and show a sense of responsibility in supporting the effective operation of eOxygen's digital products. The position requires working with a high degree of autonomy, with broad direction from the Head of Computing and other senior eOxygen staff.

## **2. POSITION CONTEXT**

At Orygen, our leadership and staff work to deliver cutting-edge research, policy development, innovative clinical services, and evidence-based training and education to ensure that there is continuous improvement in the treatments and care provided to young people experiencing mental ill-health. eOxygen, the digital mental health division of Orygen, in conjunction with the Centre for Youth Mental Health, the University of Melbourne, require an experienced front-end engineer to work on our systems for youth mental health and wellbeing.

eOxygen is commencing a deployment of MOST across Victorian youth mental health services, which will require additional resources and developments to the team. The position will provide an important contribution to the development work required for this project, beyond which there is potential for further deployments across other Australian and international mental health services.

The MOST application has a Single Page Application (SPA) front-end built with VueJS, and communicates with a PHP REST API built with Symfony.

## **3. ABOUT ORYGEN**

**VISION:** Young people to enjoy optimal mental health as they grow into adulthood.

**MISSION:** Reduce the impact of mental ill-health on young people, their families and society.

Orygen is the world's leading research and knowledge translation organisation focusing on mental ill-health in young people. Working side-by-side with young people, our partners and one another, we're redefining what's possible in global research, policy, education and clinical care. Find out more on our [website](#).

## 4. KEY RESPONSIBILITIES/OUTCOMES

The Front-End Engineer / Developer will help to ensure a positive user experience of the MOST application by:

- identifying and solving performance issues with the MOST front-end.
- optimising build processes to reduce application payload while providing polyfills for older browsers.
- implementing and testing Progressive Web Application features such as Service Workers, Web Workers, Add to Home Screen (A2HS), Push API, Notifications API, Web Sockets and caching.
- assisting in identifying and solving user experience issues related to device, platform and browser inconsistencies.
- writing code to communicate with the MOST REST API and manage application state.
- contributing to the development of new features for the MOST application, using an existing library of VueJS components and helping to build new interface components and views as required.
- assist with updates to the custom-built content management system used to generate content for the MOST application.

The Front-End Engineer / Developer will also:

- communicate with other eOrygen members about the MOST project.
- identify when escalation is required and promptly seek advice for major issues/problems.
- participate in regular sprint planning and review sessions.
- receive general direction from and work collaboratively with eOrygen's Senior Front-End Developer and back-end programmers.
- participate in other development activities and responsibilities as directed by the Head of Computing and other senior managers within the eOrygen team.

## 5. SELECTION CRITERIA

The following criteria must be met for consideration for this position:

### 5.1 Essential

- Developed expertise in JavaScript, with a focus on highly optimised, performant code.
- Experience with module bundlers (eg. Webpack), transpilation (eg. Babel) and other build processes.
- Experience with service workers and other progressive web application technologies.
- Experience with Web Sockets and other real time communication technologies
- Excellent computer skills with the ability to explain technical information in simple language.
- Ability to problem solve and exercise high level judgement when performing web development activities and where issues require escalation.
- Ability to prioritise in conjunction with excellent time management skills.
- Excellent oral and written communication.

### 5.2 Desirable

- Understanding of web browser and device / platform capabilities and inconsistencies.
- Hands-on experience with VueJS.
- Familiarity with Vuex / Redux-style state management.
- Experience with writing automated tests.

## **6. PROFESSIONAL AND ORGANISATIONAL KNOWLEDGE**

The Front-End Engineer / Developer will be expected to have:

- An understanding of web browser and device / platform capabilities and inconsistencies.
- An understanding of the common causes of front-end performance issues in web applications.
- Knowledge of strategies to mitigate the impact of network issues on Progressive Web Applications.
- A sound level of professional skill and a good understanding of modern office technologies and practices.
- An understanding of and commitment to software ethics and security issues.
- Proficient computer skills with a demonstrated ability in word processing, PowerPoint and other office software, as required.

## **7. SPECIAL REQUIREMENTS**

- Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in Oxygen's Occupational Health and Safety policy.
- All Oxygen employees are required to familiarise themselves with the organisation's policies and procedures and to adhere to them at all times.
- A current full unrestricted work permit / visa for Australia.
- A current National Police Check will be required.
- Any offer of employment is conditional upon receipt and maintenance of a satisfactory Working with Children Check.