

## Psychology Facilities at AECC University College

### Introduction

The [School of Psychology, Sport and Physical Activity](#) has a number of outstanding, in-house Psychology facilities which are available to all Psychology students and those undertaking sport and health science research at AECC University College:

### Tobii Pro mobile Eye training system

Eye-tracking systems are used in a range of different fascinating fields, from understanding where elite athletes focus their attention, to discovering what grabs shoppers' attention when they are browsing in retail.

Our top-of-the-range Tobii glasses allow the wearer to carry out typical tasks while recording the exact point of their eye focus their eyes to collect information.



### Near-Infrared Spectroscopy (NIRs)

NIRs is a brain imaging method that measures light absorbance to calculate blood oxygen levels which provides an indirect measure of brain activity, particularly in the frontal cortex. You will gain access to real time results as the patient undertakes specific tasks.

### Psychophysiology

We utilise a broad range of psychophysiological measures as part of our psychology teaching, research and consultancy activity including:

- Respiration rate
- Heart rate
- Electromyography
- Skin conductance

### Vienna Testing System

The Vienna Testing System is used for administering computerised psychological assessments. It is a fast and reliable way of measuring a range of psychological traits and abilities such as attention, concentration, peripheral perception and reaction speed.

## Magnetic Resonance Imaging (MRI) imaging

MRI can be used to explore brain structure and brain function. Our on-campus [open upright MRI scanner](#), one of only 7 in the country, can scan from a variety of positions. It is particularly useful for claustrophobic individuals as the scanning process is less enclosed than for a conventional scanner.



## Electroencephalography (EEG)

We have multiple active electrode Electroencephalography (EEG) set-ups on campus; to simultaneously measure brain activity from various areas across the scalp. EEG is particularly useful for understanding the brain's response to specific events in real-time. EEG is also very portable, so can be used in very realistic settings.



## Virtual Reality

Participants can immerse themselves in a virtual, multisensory environment. The observer's head position is tracked, so as they move around the environment, the visual scene is updated accordingly. This new reality gives a strong sense of presence in the virtual environment. The VR headset also provides auditory stimulation, vibrotactile feedback and the hand-held controllers can also track the participant's hand positions.



## Models lab

The AECC University College Models lab provides a fantastic opportunity for study to see structural replicas of the human brain and central nervous system (CNS) to better understand these fascinating areas. We also have access to real preserved brain specimens in the AECC University College pro-section laboratory.



## Patient services

Our working clinic sees over 55,000 patient contacts a year from diagnosis and treatment to rehabilitation. View our [patient services here](#).



## Book a campus tour and visit our facilities

At AECC University College we feel it is important that students get the opportunity to visit their future university before studies begin. While large-scale events such as Open Days are currently being held online, we are holding small group tours of our campus and main facilities. Tours will be operated by our Student Ambassadors and will last around 60 minutes each. Groups will be shown around the highlights of the AECC campus, including our clinics, the Library and student learning and study spaces. Social distancing and safety measures will be in place at all times. To find out more and book your place, visit: <http://bit.ly/AECCCampusTours>