

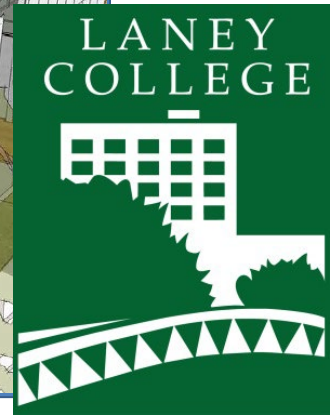
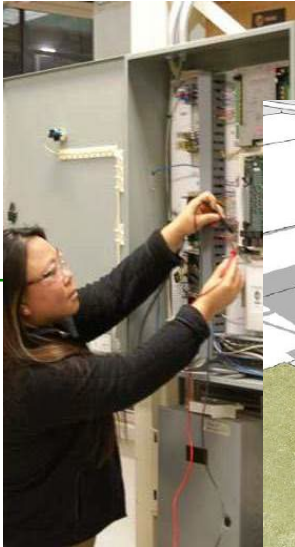
你对智能手机了如指掌, 但 "智能建筑" 呢?

立即注册

# 楼宇自动化系统

Laney College 环境控制技术

2020 年 8 月 24 日开始上课



## 什么是楼宇自动化?

它是针对建筑系统的 HVAC (供热、供暖、通风和空调)、照明、消防、安保和建筑通道等的计算机化网络、操作和控制。这些系统可以根据需要进行编程。通过适当的程序优化, 可以为楼宇提供舒适的环境、达到节约能源和节省资金的目的。

## 我可以做什么工作, 能赚多少钱?

楼宇自动化专家通常被称为控制技术人员。他们通过安装、服务、故障排除和设置控件的系统来收集数据和监控楼宇性能。自动化逻辑、西门子、霍尼韦尔和江森自控是一些招聘不到足够多合格人员的公司。所以, 知识渊博的控制技术人员具有很高的市场需求。起薪大约在 20 美元/小时, 但是凭借丰富的工作经验和加班时间, 你最终可以获得两倍或更多的工资。此外, 这些都是只有当地人才可以做的很有保障的工作。

## 我可以在哪里学习楼宇自动化系统的课程?

奥克兰的 Laney College 是旧金山湾区唯一一所提供楼宇自动化系统 (BAS) 课程、证书和 2 年制学位的社区学院或技术学院一并且您在 4 年的学院或大学中找不到此类课程。楼宇自动化系统 (BAS) 项目是环境控制技术部门的一部分, 您将在此学习建筑科学、商业暖通空调 (HVAC) 技术、计算机技术和数字控制技术。初学者应该注册这些第一学期课程:

ECT 101 - Fundamentals of Building Science

ECT 214 - Technical Math for ECT

ECT 37 - Intro to PC Hardware and Software

另外一些你可能会增加的课程:

ECT 12 - Blueprint Reading & Interpretation

E/ET 202 - Fundamentals of Electricity for ECT

## 课程费用是多少, 我在哪里可以获取更多信息?

一个典型的 2 单元课程的费用为 92 美元 (或每单元 46 美元)。完成 2 年、48 个单元课程证书的费用约为 2200 美元, 不包括学生费用、书籍或学习工具的费用一有巨大的投资价值。将其与私立技术学校进行对比, 私立技术学校一年的学费可以超过一万美元!

了解更多信息, 请访问 [laney.edu/ect](http://laney.edu/ect), 发送邮件至 [cfrost@peralta.edu](mailto:cfrost@peralta.edu) 和 [arosillo@peralta.edu](mailto:arosillo@peralta.edu) 请致电 510-464-3292 或者 510-464-3240.

Laney College 不会因为年龄、种族、肤色、性别或者性取向、婚姻或者退伍军人身份、国籍或者残疾而歧视任何人。

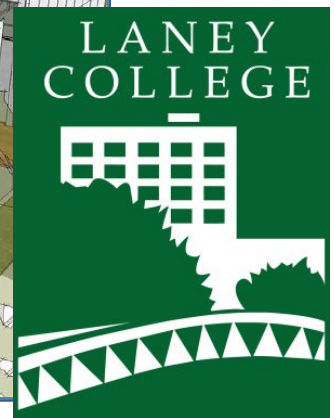
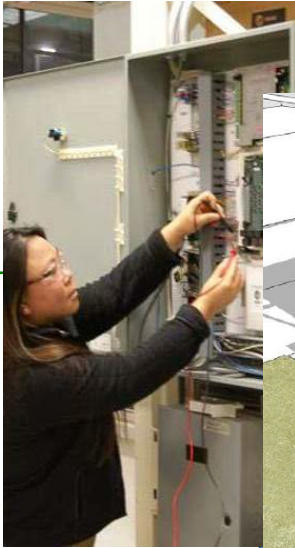
You know all about smartphones, but what about “smart buildings”?

Enroll now in

# Building Automation Systems

Laney College Environmental Control Technology

Classes start Aug. 24, 2020



## What is building automation?

It's the computerized networking, operation, and control of building systems such as HVAC (heating, ventilation and air conditioning), lighting, fire protection, security, and building access. These other systems can be programmed to run as needed. With proper optimization, it's possible to provide comfort, conserve energy, and save money.

## What jobs are available, and what can I earn?

Building automation specialists are often called controls technicians. They install, service, troubleshoot, and set up controls systems to collect data and monitor building performance. Automated Logic, Siemens, Allerton, Honeywell, and Johnson Controls are just some of companies who can't find enough qualified people to hire, so knowledgeable controls technicians are high in demand. Starting wages are anywhere between \$20 and 25/hour, but with good experience, you could reach the double digit numbers. In addition, these are good secure jobs that can't be sent overseas.

## Where can I take classes in building automation?

Laney College in Oakland is the ONLY community or technical college in the SF Bay area offering classes, certificate and 2-year degree in building automation systems (BAS) -- and you won't find such classes at a 4-yr. college or university. The BAS program is part of the Environmental Control Technology department where you will learn about building science, commercial HVAC, computers, and digital controls. **Beginning students should register for these first semester classes:**

ECT 101 - Fundamentals of Building Science  
ECT 214 - Technical Math for ECT  
ECT 37 - Intro to PC Hardware and Software

Other classes you might take in addition are:  
ECT 12 - Blueprint Reading & Interpretation  
E/ET 202 - Fundamentals of Electricity for ECT

## What do classes cost, and where can I get more info?

A typical 2-unit class costs \$92 (or \$46 per unit), and the cost of completing the 2-yr., 48-unit certificate is about \$2200 not including student fees, books or equipment--a great value and investment.

For more info, visit [laney.edu/ect](http://laney.edu/ect), email [cfrost@peralta.edu](mailto:cfrost@peralta.edu) and [arosillo@peralta.edu](mailto:arosillo@peralta.edu) or call **510-464-3292** or **510-464-3240**.

*Laney College does not discriminate on the basis of age, race, color, sex or sexual orientation, marital or veteran status, national origin, or disability.*