



# 开利空调上海研发中心

## 2020 届校园招聘简章

### 一、公司简介

#### 开利空调上海研发中心(SRDC)

传承发明现代空调的创新基因，开利始终居于高科技暖通空调及冷冻解决方案领域的全球领先地位。开利的专家们为商业、零售、运输、食品服务和住宅等不同领域客户提供可持续解决方案，综合节能产品、楼宇控制以及能效优化服务。

自开利博士 1902 年发明第一套现代空调系统以来，开利在过去的百年发展历程中，始终引领着空调行业的发展，在业界享有“全球空调专家”的美誉。1998 年，美国《时代》杂志将威利斯•开利博士列为 20 世纪最有影响力的 100 位伟人之一。

开利公司总部位于美国康涅狄格州法明顿市，生产销售遍及全球 180 个国家。目前，开利在全球拥有 30,000 名员工，产品生产遍布世界六大洲。

#### 开利在中国

随着开利 1987 年在中国成立第一家合资公司，公司在中国的历史可以追溯到 1937 年，开利的空调系统安装在中国银行大厦，当时上海最高的建筑！那时，开利空调服务于许多重要项目，例如上海大光明影院，以及沈阳到大连的城际列车等等。



如今，开利在中国员工人数已超过 2000 名，全国范围内有近 540 个销售及售后服务机构及超过 400 个经销商，为客户提供优质的产品和周到的服务。在中国的中央空调和冷冻行业，我们是毫无争议的市场领导者。无论是商用还是轻型商用领域，开利引领市场，不断进取，通过创新的解决方案提升行业竞争力，例如摩天大楼，酒店，机场，地铁，娱乐场所，寓所，别墅以及超市。

开利的先进性和可靠性是通过众多耳熟能详的项目得以验证的！北京人民大会堂，2008 年北京奥运会接近 70% 的空调项目，上海世博会 3 个永久保存建筑，以及日新月异的上海外滩风景线中最亮丽的东方明珠和金茂大厦等等。

除了创新的产品和综合的解决方案，在中国，开利还参与推动绿色建筑的行业脚步。实际上，我们本身是中国绿色建筑委员会的创始成员之一，致力推进更智能，更可持续建筑的不断前行。

### **创新领袖**

2005 年 4 月，开利在上海浦东举行了开利全球第 11 个研发中心的奠基仪式。该中心可同时开展多个重大研发项目，产品涵盖风机盘管、涡旋机组、螺杆机组、离心机组、大型溴化锂机组以及商用冷冻产品。开利上海研发中心拥有 10 多套专业的测试设备，其中风冷冷水(热泵)机组性能试验装置可以测量最大制冷（热）量高达 1300kW 的机组，成为世界上同类型试验装置中最大的风冷冷水(热泵)机组测试装置。

### **全球领先的生产基地**

开利在中国拥有二家工厂，分别是生产空调主机产品的上海一冷开利空调设备有限公司宝山工厂、生产空调末端设备为主的上海一冷开利空调设备有限公司通惠工厂。



2004年10月，开利投资1500万美元在一冷工厂设立了全球压缩机中心。该中心使开利在中国大型商用压缩机（包括活塞式、螺杆式和离心式）的年产量提高了15倍。这些压缩机产品将应用于商用空调和冷冻市场。

### **丰富的产品线**

开利空调设备涵盖离心式、螺杆式、涡旋式和活塞式水冷及风冷机组，热泵机组，吸收式溴化锂机组，以及主要空气末端产品和家用小型中央空调，丰富的产品种类可以完全满足不同客户的多样化需求，适用于大型综合建筑、机场、办公楼、酒店、数据中心、医院、餐饮及别墅等多种应用。

### **获得众多客户信赖**

在中国近三十年的发展历程中，开利的先进性和可靠性不断通过众多耳熟能详的项目得以验证！开利商用中央空调凭借其卓越的使用性能和显著的节能效果获得客户广泛认可，已先后服务于北京人民大会堂、上海东方明珠电视塔、上海金茂大厦、上海环球金融中心、上海国金中心、上海新国际博览中心、天津高银117大厦、武汉中心、重庆环球金融中心、深圳福田科技广场、成都凯德天府广场等著名建筑场所，并获得万达、华润、世茂等众多知名地产集团认可，成为战略合作伙伴。

此外，开利商用中央空调还积极投身于中国的交通设施建设。在北京首都国际机场、上海浦东国际机场、广州新白云国际机场、广州地铁1号线、西安地铁1号线和2号线等许多重大的交通枢纽工程中都留下身影。同时，还有25条城市轨道交通线路、23个火车站以及23个汽车站都使用了开利空调。

在中国文化体育事业的发展中，开利空调同样贡献卓著，多次成功得服务于大型国际性、地区性的重大场馆，如1999年昆明世界园艺博览会、2000年北京中华世纪坛、2002年广州奥林匹克中心、2005年上海F1方程式赛车和ATP大师杯网球总决赛场馆。特别值得自豪的是2008年北京奥



运会，将近 70%的体育场馆，包括“水立方”国家游泳中心、“鸟巢”国家体育场、五棵松体育馆等，均采用了开利空调产品，更特别建立北京奥运远程监控中心，确保空调系统在最佳条件下高效运行。还有，2010 年上海世博会，开利空调被选择在包括世博轴、世博中心和主题馆在内的三个核心永久性场馆中使用，并向上海世博会的国家馆、国际组织馆及企业馆提供了空气端产品。

## 二、招聘岗位及需求

招生对象面向 2020 年全日制应届高校毕业生。培养方向主要涵盖系统、机械、软件、电子等。具体如下：

### 1. 系统：

#	Position	Education	Major	Job skill
1	System Engineer - Controls	Master or above	Controls, Computer Science, Refrigerant, Mechatronics, Automation, Electronics	<ul style="list-style-type: none"> <li>• Solid demonstrated experience in system requirement development</li> <li>• Experience on requirements management tools such as Jazz Doors NG</li> <li>• Solid communication skills, primarily in English both verbal and written</li> </ul>
2	System Engineer - Small Chiller	Master or above	Heat Transfer, Refrigeration, Cryogenics	<ul style="list-style-type: none"> <li>• Fluent English (both written and spoken)</li> <li>• Screw/scroll chiller experience preferred</li> <li>• Teamwork skills required</li> </ul>
3	System Engineer - Centrifugal	Master or above	Power Engineering, Refrigeration & Cryogenics	<ul style="list-style-type: none"> <li>• HVAC equipment industry experience, preferred</li> <li>• Proficiency with MS Office, specifically Word, PowerPoint and Excel VBA.</li> <li>• Experience with FORTRAN/C/Mat Lab software for engineering simulation or optimization</li> </ul>
4	System Engineer - Advanced systems	Master or above	Statistics, Applied Math, Computer Science Software, Power Engineering, Refrigeration & Cryogenics	<ul style="list-style-type: none"> <li>• Expertise in HVAC system design and plant system optimization</li> <li>• Expertise in control algorithm development</li> <li>• Understand thermo-fluid system</li> </ul>

5	Modeling Engineer - Controls	Master or above	Controls, Computer Science, Refrigerant, Mechatronics, Automation, Electronics	<ul style="list-style-type: none"> <li>• Familiar with MS Office and Protel, Candance, Psim, Mat lab software</li> <li>• Good written and verbal English and Chinese communication skills</li> </ul>
6	Modeling Engineer - Business Tools	Master or above	Refrigeration & Cryogenics, Controls, Power Engineering, Thermal Physics, Engineering Mechanics, Applied Mathematics	<ul style="list-style-type: none"> <li>• Strong background in heat transfer, thermodynamics, calculus and numerical analysis</li> <li>• Modeling experience of thermal fluid systems.</li> <li>• Experience of developing/implementing algorithms in solving large nonlinear algebraic equation systems are preferred</li> </ul>
7	Research Engineer - Optimization Application	Master or above	Refrigeration & Cryogenics, Controls, Power Engineering, Thermal Physics, Engineering Mechanics, Applied Mathematics	<ul style="list-style-type: none"> <li>• Experience of developing/implementing algorithms in solving ODE, PDE, DAE systems and NLP, MILP, MINLP problems</li> <li>• Ability to use numerical libraries, and select and execute algorithms on a range of operating systems and hardware platforms (Linux, workstations, clusters, cloud, embedded systems, etc.)</li> </ul>
8	Senior Research Engineer - Optimization Application	Master or above	Refrigeration & Cryogenics, Controls, Power Engineering, Thermal Physics, Engineering Mechanics, Applied Mathematics	<ul style="list-style-type: none"> <li>• Possessing in-depth knowledge and experience in either continuous or discrete optimization, deterministic or stochastic optimization, theory or software tools.</li> <li>• Familiarity with the design and operation of building energy systems, especially air-conditioning and refrigeration equipment</li> </ul>
9	Chiller Application Engineer	Master or above	Heating, Ventilating and Air Conditioning	<ul style="list-style-type: none"> <li>• Chiller Plant Energy Saving and Control Optimization</li> </ul>
10	Data Analytics and Diagnostic Engineer	Master or above	Controls, Automation, Mechatronics, HVAC/R, Mechanical Engineering	<ul style="list-style-type: none"> <li>• Expertise in Control algorithm development and control system architecture design</li> <li>• Expertise in HVAC system and diagnostics</li> <li>• Expertise in data analytics model development.</li> <li>• Understand thermo-fluid system</li> </ul>



## 2. 机械:

#	Position	Education	Major	Job skill
1	Compressor Aero Engineer	Master or above	Fluid Dynamics, Compressor, Refrigeration, Mechanical or related	<ul style="list-style-type: none"> <li>• Fluent with mechanical design process and refrigeration compressor and safety standard</li> <li>• With compressor aero performance and lab instrumentation experience is preferred</li> <li>• Refrigerant or air conditioning knowledge is highly desired.</li> </ul>
2	Magnetic Bearing Engineer	Master or above	Power electronics, Mechatronics or related	<ul style="list-style-type: none"> <li>• Familiar with compressor or motor</li> <li>• Strong technical background on magnetic bearing control</li> <li>• Capable of power electronics design</li> </ul>
3	Reciprocating Compressor Engineer	Master or above	Compressor, Refrigeration, Mechanical or related	<ul style="list-style-type: none"> <li>• Familiar with FEA software.</li> <li>• Familiar with refrigeration compressor related standard</li> </ul>

## 3. 软件:

#	Position	Education	Major	Job skill
1	Software Engineer - Controls	Master or above	Controls, Computer Science, Refrigerant, Mechatronics, Automation, Electronics	<ul style="list-style-type: none"> <li>• C/C++ programming skill is must</li> <li>• HVAC industry experience, preferred</li> <li>• Good communication skills, primarily in English</li> </ul>
2	Software Engineer - VFD	Master or above	Power Electronics, Electronics	<ul style="list-style-type: none"> <li>• Familiar with the TI C2000 and Cortex-M3 microcontroller architectures</li> <li>• Familiar with TI Code Composer or Eclipse based embedded development tools</li> <li>• Master the CCS, MATLAB application</li> </ul>
3	Research Engineer – Control Algorithms	Master or above	Refrigeration & Cryogenics, Controls, Power Engineering, Thermal Physics, Engineering Mechanics, Applied Mathematics	<ul style="list-style-type: none"> <li>• Classical and modern control theory including practical nonlinear control and system identification techniques and knowledge of numerical methods and dynamic process modeling</li> <li>• Control algorithm and architecture development, verification and implementation process</li> </ul>



4	Senior Control Engineer - Advanced systems	Master or above	HVAC&R, Heat Transfer, Thermodynamics, Mechanical, Control Engineering	<ul style="list-style-type: none"> <li>• Expertise in control algorithm development</li> <li>• Expertise in HVAC FDD</li> <li>• Data analytics algorithm experiences</li> <li>• Software development experiences with Java and JS</li> <li>• Expertise in C/C++/Mat lab/Simulink, BACNET/MODBUS protocols</li> </ul>
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#### 4. 电子:

#	Position	Education	Major	Job skill
1	Electrical Engineer	Master or above	Power Electronics, Electronics, Electrical Engineering Automation	<ul style="list-style-type: none"> <li>• Maintaining electrical design document, BOM, rules, and aligns the technical status with other teams</li> <li>• Performance electric test, technical issues solving, etc.</li> <li>• Familiar with the oscilloscope and power meter operation</li> <li>• VFD knowledge and application experience</li> <li>• HVAC industry experience, preferred</li> </ul>
2	Hardware Application Engineer	Master or above	Power Electronics, Electronics	<ul style="list-style-type: none"> <li>• Familiar with MS Office and Protel, Candance, Psim, Mat lab software</li> <li>• Good written and verbal English and Chinese communication skills</li> </ul>

#### 5. 其他:

Position	Education	Major	Job skill
Aero acoustics Engineer	Master or above	Power Engineering, Refrigeration & Cryogenics	<ul style="list-style-type: none"> <li>• Aero acoustic modeling. Including fluid induced sound modeling, FSI modeling</li> <li>• Sound source identification and analysis</li> <li>• Familiar with the oscilloscope and power meter operation</li> </ul>



### 三、招聘流程

投递简历到 SRDC 招聘邮箱(或者于校园宣讲会现场提交简历)→ 简历评阅→ 电话初试 →现场复试  
→ offer

### 四、简历投递

- 1、 校园宣讲会现场可投递纸质简历（须注明应聘职位）
- 2、 以“**学校全称\_专业\_姓名\_应聘职位**”格式为邮件标题，投递“**职位申请表**”及“**简历**”到  
以下招聘邮箱：[srdcrecruit@carrier.com](mailto:srdcrecruit@carrier.com)
- 3、 “职位申请表”将与职位信息一起发布在校园内网、校园 BBS、SRDC 微信公众号及 H5 页面

**Ps...更多公司介绍及校招信息行扫描下方二维码，关注 SRDC H5 页面及微信公众号**



公众号



H5