

## Job title: Cartographer



<b>Job title: Cartographers</b>	<p>Cartographers collect information about the geography of an area to design and produce maps, charts and plans.</p>
<b>Entry requirements:</b>	<p><b>University:</b>          You can take a degree in:</p> <ul style="list-style-type: none"> <li>• geography</li> <li>• geographical information systems (GIS)</li> <li>• land surveying</li> <li>• earth sciences</li> <li>• oceanography</li> </ul> <p>Employers may also accept degrees in other subjects like computer science, software engineering or graphic design.</p> <p>A postgraduate qualification may help you to find work in a specialist field of cartography like GIS.</p> <p>You'll usually need:</p> <ul style="list-style-type: none"> <li>• 2 to 3 A levels for a degree</li> <li>• a degree in a relevant subject for postgraduate study</li> </ul> <p><b>Apprenticeships:</b>          You could complete a geospatial survey technician advanced apprenticeship, or geospatial mapping degree apprenticeship.</p> <p>You'll usually need:</p> <ul style="list-style-type: none"> <li>• 4 or 5 GCSEs at grades 9 to 4 (A* to C) and A levels, or equivalent, for a higher or degree apprenticeship</li> </ul> <p><b>Work:</b>          You may be able to get into this job by starting as a trainee cartographic technician and working your way up. Employers may look for an apprenticeship in geospatial surveying, or A levels or equivalent, in geography, art and design, mathematics or computing.</p> <p><b>Other Routes:</b>          If you want to work as a cartographer in the armed forces, you can apply to the <a href="#">British army</a> as a geographic technician, or the <a href="#">Royal Air Force</a> as an air cartographer.</p> <p>After you leave the services, you could use your experience to find work in commercial cartography and mapping.</p>
<b>Skills required:</b>	<p>You'll need:</p> <ul style="list-style-type: none"> <li>• knowledge of geography</li> <li>• maths knowledge</li> <li>• to be thorough and pay attention to detail</li> <li>• analytical thinking skills</li> <li>• excellent written communication skills</li> <li>• excellent verbal communication skills</li> <li>• design skills and knowledge</li> <li>• the ability to work well with others</li> <li>• to be able to use a computer and the main software packages confidently</li> </ul>
<b>What you'll do:</b>	<p>In this role you could be :</p> <ul style="list-style-type: none"> <li>• using desktop publishing and specialist computer software</li> <li>• designing digital or paper based maps</li> <li>• checking maps and charts are accurate and to scale</li> <li>• editing maps, adding and removing new roads, structures or landmarks</li> <li>• collecting and analysing data from remote sensors on satellites and planes</li> <li>• using GIS to model and analyse landscape features</li> <li>• plotting the heights and positions of geographical features from aerial photographs</li> <li>• carrying out topographic surveys of the land and hydrographic surveys of the sea and coastal areas</li> </ul>

<b>What you'll earn:</b>	£18,000 Starter to £45,000 Experienced
<b>Working hours, patterns and environment:</b>	<ul style="list-style-type: none"><li>• 39-41 hours per week</li><li>• Evenings occasionally</li><li>• You could work in a laboratory.</li><li>• Your working environment may be emotionally demanding.</li></ul>
<b>Career path and progression:</b>	<p>With experience you could become a senior cartographer and manage mapping projects and staff.</p> <p>If you specialise in working with GIS, you could apply for <a href="#">Chartered Geographer (GIS) status</a>.</p> <p>You could also work on a freelance basis, but you'll need your own mapping equipment.</p>