

Portland, United States

Portland is the fourteenth-ranked cluster, out of 21 American clusters, that falls within the top 100 S&T clusters in 2023. It filed **2,112 PCT applications** and published **2,969 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

67th largest science and technology cluster in 2023 (down eleven spots from 2022)

34th S&T cluster by intensity (relative to population density) in 2023 (down three spots from 2022)

Top PCT applicants

| | | Patents | Share |
|---|--------------------|---------|-------|
| 1 | Intel | 1,592 | 33% |
| 2 | Nike Innovate C.V. | 638 | 13% |
| 3 | Hewlett-Packard | 559 | 12% |

Top publishing organizations

| | | Articles | Share |
|---|------------------------------------|----------|-------|
| 1 | Oregon Health & Science University | 3,431 | 51% |
| 2 | Portland State University | 800 | 12% |
| 3 | Intel Corporation | 211 | 3% |

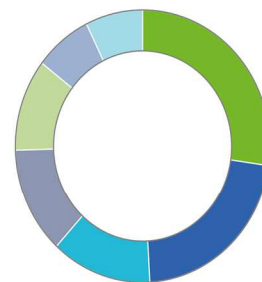
Top technology fields in Portland

Patents



| | |
|--|---|
| ■ Semiconductors (18%) | ■ Textile and paper machines (6%) |
| ■ Digital coms. (13%) | ■ Other machines (5%) |
| ■ Computer tech. (12%) | ■ Medical tech. (4%) |
| ■ Other consumer goods (11%) | |

Publications



| | |
|--|--|
| ■ Clinical medicine (15%) | ■ Biochem. & biotech. (6%) |
| ■ Surgery (12%) | ■ Engineering (4%) |
| ■ Fundamental biology (7%) | ■ Medical science (4%) |
| ■ Technology (7%) | |

42% of Portland's PCT patent applications are filed in collaboration with other inventors, with **San Jose–San Francisco**, **Beijing** and **Phoenix** emerging as the top collaborative locations.

75% of Portland's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **San Jose–San Francisco**, **Washington** and **New York City**.