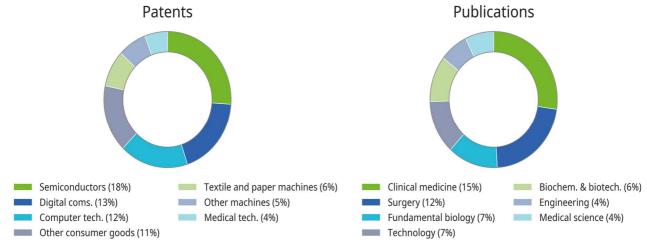# Portland, United States

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

Publications

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

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.