A global analysis of patent filings over the past five years reveals unique research specializations by country. Understanding these localized specializations provides a strategic opportunity to identify untapped talent pools, as well as new markets or production locations for existing technologies.

**Finland**
Unique IP focus: Paper, paperboard, cellulosic pulp and fibers
Why: Forests cover 75% of Finland’s land area and the forest industry accounts for over 20% of export revenue.

**South Africa**
Unique IP focus: Explosives for mining: emulsion explosives, granular explosives, casing and detonation
Why: Mining accounts for 25% of exports in South Africa and 7.7% of gross domestic product.

**New Zealand**
Unique IP focus: Limiting human-animal disease transmission especially from sheep and cattle
Why: The ratio of livestock to people in New Zealand is 6 to 1.

**India**
Unique IP focus: Drug delivery methods: tablets, capsules to improve dosing, inhalation and release
Why: India is the world’s largest exporter of generic drugs.

**Brazil**
Unique IP focus: Natural products and essential oils for use in skincare, haircare and antiperspirants
Why: Brazil has one of the most biodiverse ecosystems; almost 20% of all natural species inhabit one of its 6 biomes.

**Russia**
Unique IP focus: Portland cement for sealing wells used for hydraulic fracturing and shale oil processing
Why: Russia has the 2nd largest shale oil resources in the world behind the US.

**Canada**
Unique IP focus: Hydraulic fracturing with emphasis on fluids used to release oil and natural gas from rock
Why: Canada’s formations hold resources such as 500 trillion cubic feet of natural gas, 20 billion barrels of natural gas liquids and 4.5 billion barrels of oil.

**South Korea**
Unique IP focus: The components of electroluminescent devices for electronic displays and lighting
Why: Semiconductors enter the country duty-free, leading South Korea’s rank as third in production and as the fifth largest market of consumption.

**Portland cement**

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**Source:**
- Finnish Forest Association (2016): Finnish forest resources.
- India Brand Equity Foundation: Pharmaceutical Exports From India (2017).
- New Phytologis (2014): Experiences from the Brazilian Atlantic Forest: ecological findings and conservation initiatives.