

Development partner sought for innovative pressure-resistant packaging solution for carbonated beverages.

Summary

Profile type

Technology request

Company's country

Sweden

POD reference

TRSE20261012023

Profile status

PUBLISHED

Type of partnership

Research and development cooperation agreement
Commercial agreement with technical assistance

Targeted countries

• All countries

Contact Person

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Term of validity

12 Oct 2026
12 Oct 2027

Last update

12 Oct 2026

General Information

Short summary

A Swedish entrepreneur is developing an innovative packaging solution for carbonated beverages and seeks technical partners to support product development. The concept has reached an initial design stage and now requires expertise in packaging engineering, pressure-resistant food-grade materials, carbonation retention, dispensing systems and cost-efficient manufacturing. Research institutes, universities, engineering firms and manufacturers are invited to collaborate.

Full description

A Swedish entrepreneur is developing a novel packaging solution intended for carbonated beverages. An initial concept and preliminary design have been created, but further development is required to transform the idea into a technically robust, manufacturable and commercially viable product.

The key challenge is to develop a packaging system capable of safely retaining carbonation and internal pressure while maintaining product quality throughout storage and use. At the same time, the solution must provide a reliable and user-friendly dispensing function and be suitable for cost-efficient production at scale.

The inventor is seeking external expertise to evaluate, challenge and further develop the current concept. The objective is to identify the most suitable technical solutions regarding material selection, structural design, pressure management and dispensing functionality.

Important development areas include:

- Selection of food-grade materials suitable for carbonated beverages
- Packaging structures capable of withstanding internal pressure
- Gas barrier performance and carbonation preservation
- Design and optimisation of dispensing systems, valves or taps
- Product engineering and industrial design
- Prototype development and testing
- Manufacturing methods suitable for commercial production
- Cost optimisation and scalability

The company is open to engaging with different types of partners and collaboration models. Potential partners may include product development companies, engineering consultancies, research institutes, universities, innovation centres or manufacturers with in-house design and R&D capabilities.

The project is currently at an early stage and therefore offers opportunities for partners to contribute significantly to the technical development process. The inventor welcomes organisations that can provide specialist expertise, testing capabilities, prototyping support or product engineering services.

Specific technical details regarding the concept will be shared during further discussions under appropriate confidentiality arrangements.

The ultimate objective is to develop a technically reliable, cost-effective and commercially attractive packaging solution capable of meeting the requirements associated with carbonated beverages while ensuring a positive consumer experience and industrial feasibility.

Advantages and innovations

The project aims to address technical challenges associated with packaging and dispensing carbonated beverages through the development of an innovative packaging concept.

Current solutions for carbonated beverages often face limitations related to pressure management, preservation of carbonation, dispensing performance, user convenience and production costs. The proposed concept seeks to combine these requirements within a single packaging solution capable of providing both functional and commercial benefits.

The innovation focuses on developing a packaging system that can:

- Maintain carbonation and beverage quality over time
- Safely withstand internal pressure

- Enable controlled and user-friendly dispensing
- Utilise suitable food-grade materials
- Be manufactured using cost-efficient production methods
- Support scalability for future commercialisation

A key aspect of the project is the optimisation of the interaction between packaging geometry, material selection and dispensing technology. This requires multidisciplinary expertise within materials engineering, packaging design and product development.

The project represents an opportunity for technical partners to participate in the development of a potentially novel packaging solution addressing an identified market need within the beverage sector. At this stage, the focus is on validating and refining the concept rather than promoting a finished product.

Detailed information regarding the proposed solution and its unique features can be discussed with selected partners under confidentiality agreements.

Technical specification or expertise sought

The company is looking for partners with expertise in one or more of the following areas:

- Packaging engineering
- Design of pressure-resistant containers and systems
- Carbonated beverage packaging
- Polymer engineering and plastic materials
- Food-contact materials and regulatory requirements
- Gas barrier technologies
- Valve, tap and dispensing system development
- Product engineering and industrial design
- Prototyping and testing
- Manufacturing engineering
- Design for manufacturing (DFM)
- Injection moulding, extrusion or related production technologies
- Product validation and performance testing

Potential partner types include:

- Product development companies
- Engineering consultancies
- Packaging technology specialists
- Manufacturers with in-house R&D capabilities
- Universities
- Research institutes
- Innovation centres and technology organisations

The sought partner should be able to contribute to concept refinement, technical validation, prototype development and preparation for future commercial production.

Stage of development

Under development

Sustainable Development goals

- **Goal 12: Responsible Consumption and Production**
- **Goal 3: Good Health and Well-being**

IPR Status

IPR Notes

Partner Sought

Expected role of the partner

Potential partner types include:

- Product development companies
- Engineering consultancies
- Packaging technology specialists
- Manufacturers with in-house R&D capabilities
- Universities
- Research institutes
- Innovation centres and technology organisations

The sought partner should be able to contribute to concept refinement, technical validation, prototype development and preparation for future commercial production.

Type of partnership

Research and development cooperation agreement
Commercial agreement with technical assistance

Type and size of the partner

- **SME 11-49**
- **SME <=10**
- **SME 50 - 249**
- **University**
- **Other**
- **R&D Institution**

Dissemination

Technology keywords

- **08001003 - Food Packaging / Handling**

Market keywords

- **09004006 - Packing products and systems**

Targeted countries

- All countries

Sector groups involved