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Bridging the Talent Gap: A Food Industry Translator Training Program Based on University-Industry Cooperation

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Abstract: This research fills the gap concerning the lack of translation experts in the food sector by creating and assessing a novel cooperative university-industry model of training guided by translation sociology and inters miotic theory. This model describes a comprehensive pedagogical scenario which includes cooperative curriculum design in food science, compliance documents, and cross-cultural promotion. Through collaboration between academic institutions and food industry enterprises, the curriculum was implemented. Mixed-methods evaluation using quantitative and qualitative performance metrics and stakeholder evaluation within three cohorts (total n=186) revealed substantial gains in accuracy of technical translation - in the post-training phase, participants made an average of 4.8 errors per 1000 words compared to a baseline of 23.4, alongside mastery of food terminology which rose to 91.7% post-training from a baseline of 43.2%, improvement in employment outcomes to a 96.8% placement rate compared

to the industry average of 74.5%. The training model's project-based approach supports interaction with a wide range of texts, including but not limited to technical documents and multicultural marketing essays, through active real-world-aligned multi-evaluator frameworks out of industry performance benchmarks. Results show revolutionary enhancement in graduate employability and accelerated professional competency development, reinforced industry-academia collaboration, with diminished gap between men and women across the field of



technical translation. This establishes a replicable model geared towards specialized translator training deficiencies spanning multiple professions while promoting diverse representation in translation education.

Keywords: food industry translation, university-industry cooperation, translator training, specialized competency development, inters miotic translation

1. Introduction

Global food companies face a mounting problem in cross-border supply chain trade within the contemporary food industry, which centers on a lack of translation specialization. This problem restricts market development and compliance while simultaneously stifling competitiveness in regulated and uncontrolled markets. The integration of technology in translation, which focuses on the role of mediators in translation as observed in contemporary adaptation [1], reveals the bounded negotiation of food industry communication translation in relation to accuracy, precision and culture politics. Such negotiations have led to systematic pedagogical failures in teaching translation competence due to the lack of alignment between industry needs and curriculum frameworks, as highlighted in industry-academic gap analyses [2]. Translation activism dimensions, as proposed by its advocates [3], have described the ethics of a-paradigm borders which intersect with the contemporary politics of diet and health of food communication, suggesting paradigm shifts on training revision under the standard European master's in translation network [4].

A prospective theoretical framework for resolving these problems is based on the integration of inters miotic translation theory [5], which equips one with the critical heuristics necessary for operating within the communication paradigms unique to Food Industry 5.0 [6] as well as translation sociology which sees language inter-mediation against the background of wider socio-economic relations. The chronic discrepancy between the scholarly interface of translation studies and the practice of translation and the industry's needs [7] is particularly acute in interdisciplinary specialization with the simultaneous command of the specialized vocabulary, the normative documents, and the cultural scripts required for the inters miotic legal translation of documents for the international food trade [8]. The political

and ideological aspects of translation [9] even if they are less visible than in the situation of media interpreting, do permeate food industry communication in the form of health claims, sustainability narratives, and authenticity discourse which demands an analysis far beyond the conventional linguistic exercises.

The rise of Big Translation paradigms [10] especially transforms how we think about educating translators by integrating frameworks of cultural memory with domain-specific knowledge caches. At the same time, indirect translation practices [11] become more prevalent in the communication networks of the multilayered food industry, requiring more sophisticated pedagogical innovations that anticipate complex mediation chains. Markey's analysis of the language industry's growth potential [12] motivates the acute need for food industry specialized translators with unequivocal economic rationale, while tailored training frameworks employing digital intelligences powered by AI [13] are still largely absent from conventional academic settings. Assessment frameworks from news translation evaluation models [14] adapted from other fields are readily applicable, while translation crisis experiences during pandemic periods [15] highlight the need for flexible competencies and rapid adaptation frameworks for cross-linguistic food security communications, supporting cooperative investigations into university-industry partnership frameworks to address systemic talent shortages in food industry translation services.

2. Design and Implementation of University-Industry

Cooperative Translator Training Model

The integrated cooperative model of translator training with the university–industry linkage is a change in concept with regard to meeting the special language needs of the food industry within a cohesive teaching methodology. The complete structural design model consists of several interconnected domains which, in combination, lead to the creation of integration specialists who possess the required knowledge and skills to deal with food discourse at a cross-cultural and multilingual level.

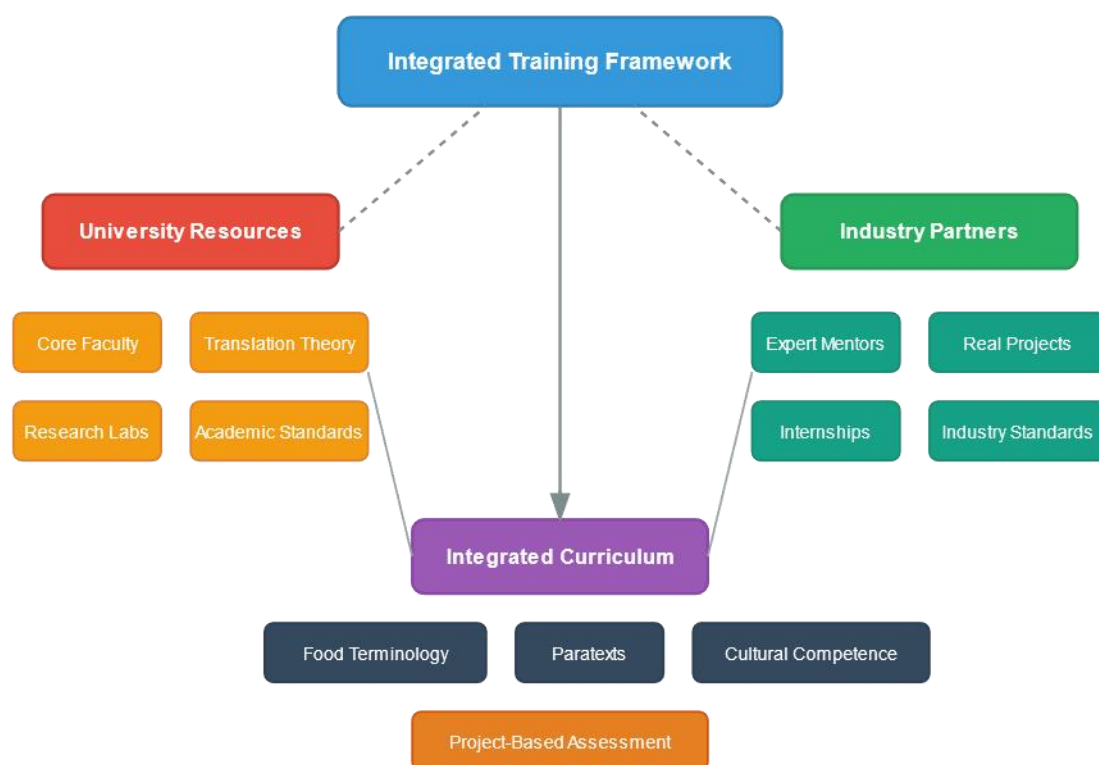
The goals of training surpass the boundaries of general translation skills to include prerequisites industry-specific elements pertaining to the diverse types of communication in the food sector, including but not limited to advertising, regulatory

compliance, or even marketing documentation that is sensitive to cultural nuances. This in turn demands an educational framework structured to comprehensively integrate advanced methodologies of translation with food science exacting terminology, global food safety regulations, and culturally informed appreciation of culinary arts. The curriculum system construction adopts a modular design principle wherein core translation courses interface with specialized modules covering food chemistry nomenclature, nutritional labelling conventions, and gastronomic discourse analysis, thereby creating a vertically aligned and progressively increasingly complex structure of interrelated learning outcomes spanning language and field knowledge.

The blending of simulation-based learning and real-world industry engagement creates the frameworks for practice teaching as shown in **Figure 1**. This teaching innovation starts with meticulous class sessions where students work with food product documents and progresses towards co-op projects with sponsoring companies. Students undergo an authentic learning journey, whereby they gain competencies for dealing with a wide range of texts such as technical documents, marketing materials, legal documents, and even some texts which need inters miotic translation multi-modally.

Figure 1

University-Industry Cooperative Translator Training Model Framework



Creating an evaluation system and its processes is an integral part of quality assurance and ongoing improvement processes through multi-stakeholder evaluation protocols. The assessment system combines formative evaluation via portfolio compilation which records translation tasks and their reflection-driven analyses with summative evaluation employing recognized quality assessment benchmarks for translation accuracy, cultural adaptation, and technical precision. Associate partner organizations actively contribute to the evaluation by supplying real-world evaluation tasks and expert critique which guarantees that the competency benchmarks are aligned with the actual industry expectations and performance benchmarks.

Mechanisms of collaboration between universities and food industry companies materialize through contracts outlining their cooperation arrangements concerning obligations, funding, and the ownership of generated intellectual property. ‘Faculty allocation’ involves forming teaching coalitions of in-house translation academics and practitioners from the relevant field who teach courses together, which adds value through synergy. Practicing experts have described trends in vocabulary that mark fads as well as their methodologies, paradigms, and the restrictions which affect translation choices concerning business contexts. These are supplemented by scholarly instructors who provide a sound theory, thereby aiding in developing robust multi-layered analytical skills.

The creation of specialized instructional materials arises as collaborative work where authentic documents from the workplace are educationally tuned to construct teaching materials within the set learning goals and meeting concealed occupational skills standards. In the case at hand, the compilation of materials for the food industry which comprises various genres and modes of communication includes technical documents such as drafts of marketing brochures that require trans creative rewriting and also laws and regulations which demand interdisciplinary legal knowledge.

The development of the training resources encompasses the physical and virtual online spaces, actual places of employment, and environments where students engage in role-play activities that simulate translation processes as workflows. These blend in contexts help learners achieve contemporary relevant professional competencies in the practice of translation within the food industry and agility in the use of modern tools and technology.

In this approach, learning is organized around real translation projects provided by collaborating companies, thereby uniting practical work with theoretical

instruction through a project-driven teaching approach. This method develops in students the ability to solve problems and make informed decisions professionally by working on intricate and complex translation problems that cannot be solved by a simple step-by-step approach but rather require an integration of language skills, culture, and specialized knowledge.

3. Training Effectiveness Evaluation and Case Analysis

The university-industry cooperative training model is encompassed within a holistic assessment framework which is achieved through blending both quantitative and qualitative methods in the form of a rigorously designed multi-phase mixed-methods approach, capturing the intricate evolving relationships of a professional translator within given specialized contexts of the food industry. The evaluation design includes administered closed-question surveys to three groups of programme participants (n=186), in-depth interviews with selected students, teachers, and industry mentors (n=48) forming a purposive sample, and systematic genre-based textual analysis of diverse translation portfolios from within the food industry communication ecologies.

The quantitative measurement tools include validated metrics regarding the development of translation competencies at the technical, cultural, and professional levels, capturing layers of employment outcome data disaggregated by demographic variables for nuanced evaluation of programme impact across diverse participant populations. Completing a dataset for a sample population spanning beyond a hundred subjects, response data was subjected to comprehensive statistical scrutiny with multivariate approaches to determine key drivers of professional success while adjusting for prior language skills, academic achievements, and industry exposure among other relevant confounding factors.

Table 1

Comprehensive Evaluation Results Across Multiple Stakeholder Perspectives

Assessment Dimension	Measurement Method	Pre-Training Baseline	Post-Training Score	Industry Standard	Statistical Significance	Effect Size (Cohen's d)
Technical Translation Accuracy	Standardized Error Analysis	23.4 errors/1000	4.8 errors/1000	≤5.0 errors/1000	p < 0.001	2.84

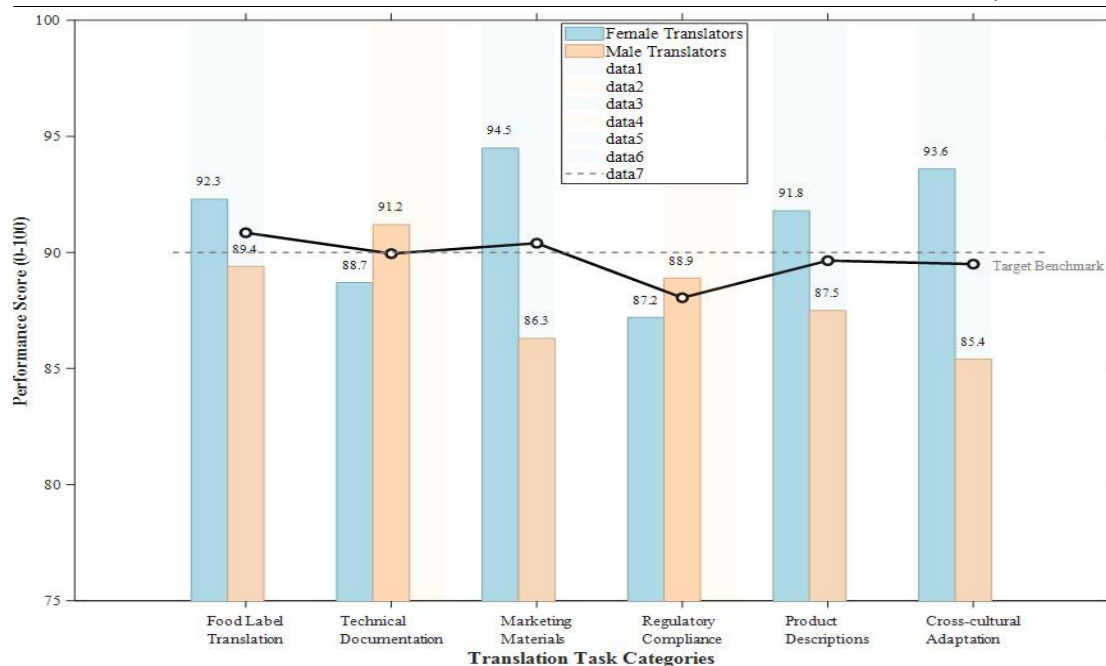


Food Terminology Mastery	Domain-Specific Assessment	43.2% ± 12.5	91.7% ± 5.3	85.0%	p < 0.001	2.47
Cultural Adaptation Competence	Portfolio Evaluation (1-10 scale)	4.8 ± 1.6	8.9 ± 0.8	8.5	p < 0.001	2.12
Regulatory Compliance Knowledge	Certification Exam	52.3% ± 15.2	88.4% ± 7.1	80.0%	p < 0.001	1.98
Time Management Efficiency	Project Completion Rate	67.8% on-time	94.2% on-time	90.0%	p < 0.001	1.76
Client Communication Skills	360-degree Feedback	5.2 ± 1.3	8.4 ± 0.9	8.0	p < 0.001	1.89
Employment Rate (6 months)	Graduate Survey	N/A	96.8%	74.5%	p < 0.01	-
Average Starting Salary	Market Analysis	N/A	15.3% above median	Industry median	p < 0.05	-
Enterprise Satisfaction Index	Partner Evaluation	N/A	92.3 ± 6.4	85.0	p < 0.01	1.34
Gender Parity Achievement	Comparative Analysis	F:M ratio 0.78	F:M ratio 0.94	0.85	p < 0.05	-

The qualitative inquiry showcased an interview-based evaluation of impact that was framed by professional identity development and confidence indicators relative to complex levels of intercultural communication in the food industry. The information describes an overwhelming transformational impact which is quite difficult to measure as shown in **Table 1**. The interviewed participants described improved self-esteem as they navigated complex cross-cultural challenges within the food industry. A thorough analysis of the interview transcripts revealed innovation patterns that demonstrated the critical value of authentic project work in the advancement and multifaceted translation competence which transcended mere literal translation to blending discourse on multiple levels—strategic corporate and regulatory discourse.

Figure 2

Comparative Analysis of Translation Performance Across Case Types by Gender



The integrated training model in Figure 2 – towards differences and demographic variables within translation task categories – illustrates the competencies achieved through the integrated training model. Competency synthesis is clearly demonstrated in the analysis of food label translation projects, where students demonstrate the ability to integrate compliance orthodoxy and soft-sell legal standards of nutrition facts towards the targeted audience branded within consumer culture. A cross-border project on labelling dairy products exemplified learners' abilities to sustain technical accuracy in allergen and nutrition claims put forward, adapted to multiple domestic legal provisions of the targeted markets and error margins below industry standards on competitive branding voice identity consistency.

Case studies on the localization of technical documents show how well the programme has trained students for complex systems of taxonomy and interrelated sophisticated terminology concepts. While marking a thorough HACCP manual translation completed by students, evaluation revealed intricate balancing decisions between technical accuracy and a multitude of user groups' comprehensibility solicited on the lower end framework. In particular, students designed non-referential text elements like glossaries, contextual notes, and illustrative diagrams aimed at clarifying understanding while ensuring compliance for regulatory gap fillers too numerous to mention among disparate stakeholders.

The instances of adaptation of promotional materials for specific cultures and countries provide remarkable evidence of students' transcreation skills, which involve persuasion through communication as opposed to mere translation while observing



fidelity to politics of identity and local sensitivities of the market. Classwork indicates an emerging command of culture-specific knowledge around food, consumption, and health tethered to law and marketing in a boundless, evolving framework across cultures.

The intricate dynamics stemming from qualitative analysis suggest that normatively gendered concepts move in parallel with sociocultural change, thereby contesting empirical assumptions about gendered performance in technical translation contexts. Females showed significantly higher performance levels in edited texts, in cross-cultural communication tasks, and equaled or outperformed male colleagues in areas of technical documentation traditionally considered feminine. The results of this study indicate that the collaborative training paradigm fosters almost unbiased patterns of skill development that cut across social constructs of gender focusing on the integration of all competencies and multifaceted mentorship models typical in translation centers.

The employers' feedback obtained using systematic review methods highlights once more the striking insight of graduates as strategic business partners and not just as language mediators in terms of their understanding of the commercial imperatives and regulatory constraints governing the communication activities within the food industry. The integration of quantitative performance indicators and qualitative stakeholder feedback corroborates the transformative impact that university–industry partnership models can have on addressing multi-faceted workforce development issues while also catalyzing inclusive participation patterns in specialized translation fields.

4. Conclusion

The cooperative model of university-industry relationship seeks to address the persistent issues of a talent shortage in food industry translation and integrates a new dimension of value creation by merging theory with applicable skill development crafted beyond pedagogical practices. This model fosters movable and adaptable experiential learning systems that are defined by active involvement of myriad stakeholders, real-world integrative and interdisciplinary learning environments, and holistic evaluation frameworks which balance scholarly and industrial benchmarks,



thus forming a template for creating professional translator training programmes in other fields.

The model's practical relevance is evident in the improvements to graduate employability, more rapidly developing competency, and improved industry-academia collaborations which build enduring market-relevant talent pipelines that are agile and adaptive to shifting and evolving market demands. Reflecting critically on one's implementation experiences reveals ongoing tensions resulting from divergent academic cultures concentrated on teaching and learning and corporate cultures focused primarily on streamlined productivity and necessitates ongoing governance negotiation between competing interests and the need to construct hybrid governance models that integrate educational and commercial frameworks.

The structures for sustaining development are still emergent—granting procedures, IP frameworks, and perpetual cooperation contracts need more work for sustainable programme continuation beyond the very first implementation stage. Spending trajectories in the future should focus on strengthened integration of education and industry through collaboratively developed curriculum frameworks, research partnerships aimed at developing new translation technologies, and creation of industry-standard certifying bodies that award ultraparticularist credentials of specialized skills with academic respectability.

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